AUDIO VIDEO SURROUND RECEIVER

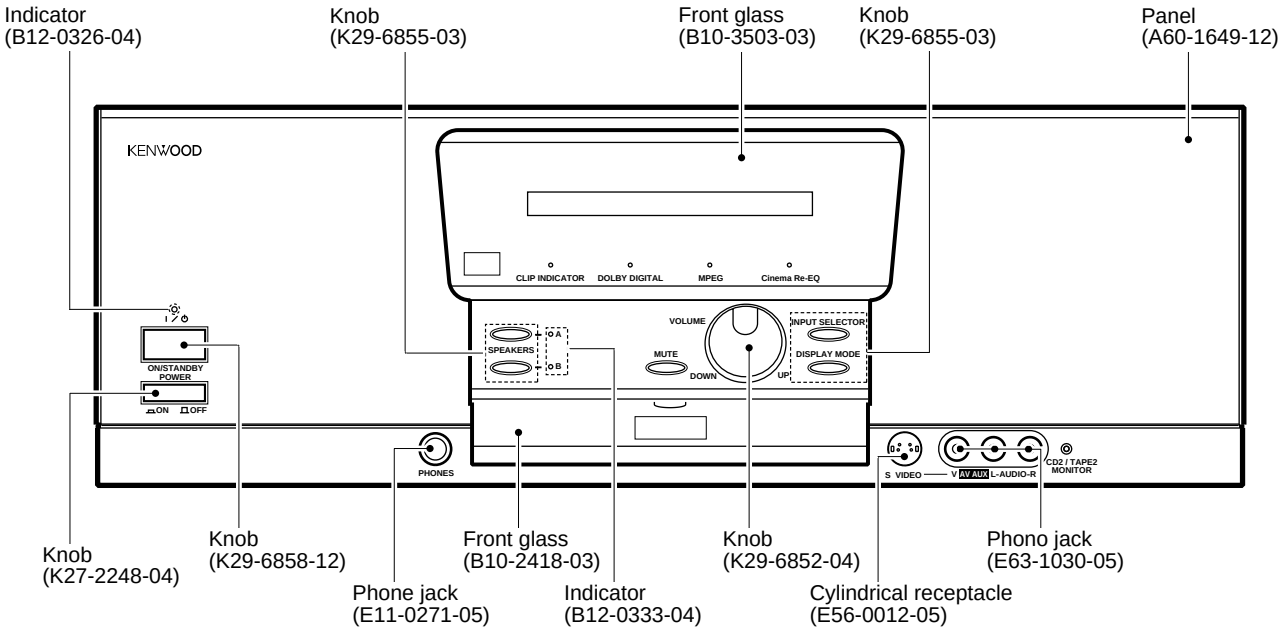
KRF-X9992D/X9992DE

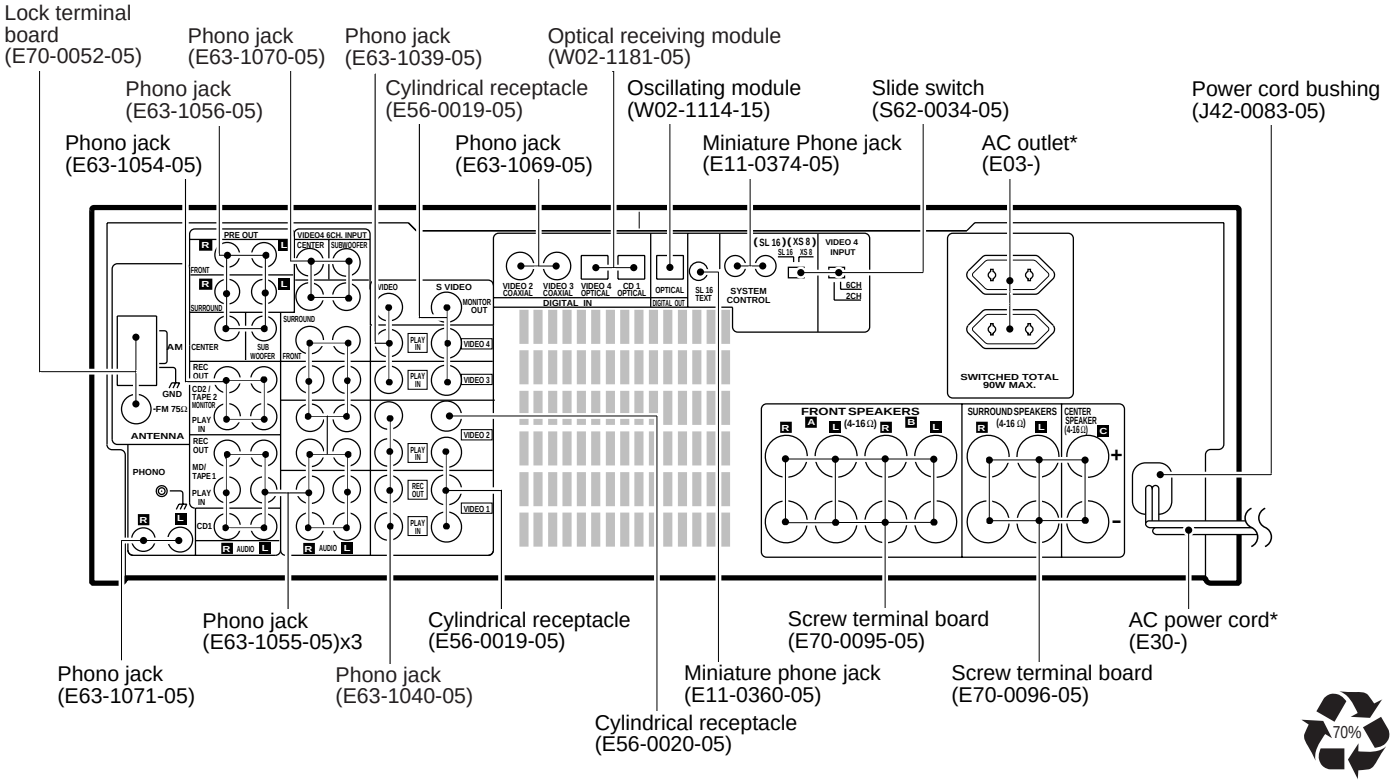
SERVICE MANUAL

KENWOOD

© 1999-8/B51-5564-00 (K/K) 1653

This manual is available for repair in the Europe and England markets.
Please refer to the original manual (B51-5560-00) if need the information in the USA and Canada and other markets.





70%

***Refer to parts list on page44.**

KRF-X9992D/X9992DE

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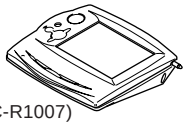
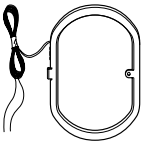
Accessories

Remote control unit (1)
(A70-1290-05)

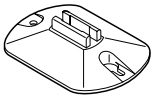


(RC-R1007)
Battery cover(A09-1130-08)

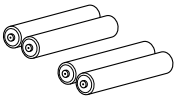
AM loop antenna (1) (T90-0833-05)



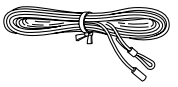
Loop antenna stand (1)
(J19-3645-05)



Batteries(R6/AA) (4)



FM indoor antenna (1)
(T90-0841-05)



Cautions

How to reset the microcomputer

The microcomputer may malfunction (impossibility of operation, erroneous display, etc.) when the power cord is unplugged and plugged in again while the unit is in ON mode or due to other external causes. In this case, execute the procedure on the right to reset the microcomputer and return the unit to the normal condition.

- Resetting the microcomputer clears the memory you entered and returns it to the initial condition when the unit left the factory.

❶ With the power cord plugged in, turn the POWER key to OFF.

❷ While holding down the I/⏻ (ON/STANDBY) key, press the POWER key.

Memory backup function

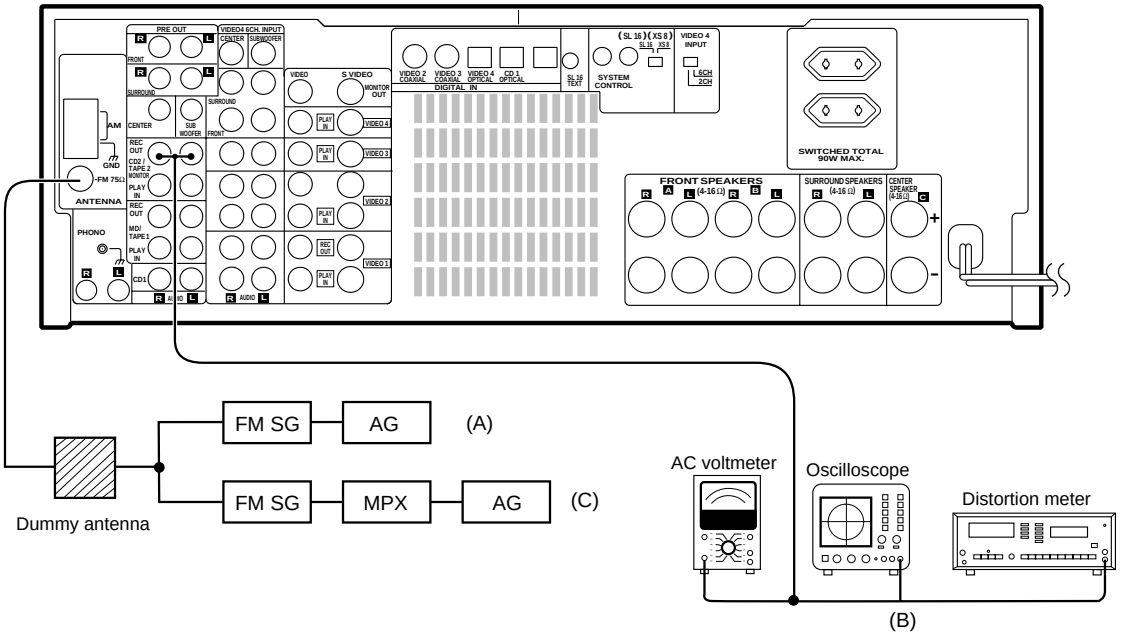
Please note that the following items will be deleted from this unit's memory if the power cord is disconnected from the AC outlet for approximately three days.

- The input selection is cleared and the **"Tuner"** input is selected.
- The volume setting is cleared and the volume is set to **"-66 dB"**.
- The receiving band setting is cleared and the **"FM"** band is selected.
- The frequency setting is cleared and 87.5 MHz is selected.
- The preset station memory is cleared.
- The surround setting is cleared and reset to the initial condition.

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION :		**SELECTOR : FM**	***Adjust NO.1 and NO.2 repeat.**				
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, ±40kHz dev. 70dBf (ANT. input)	Connect a DC voltmeter between CN12 ① and CN12 ② (X11)	MONO 98.0MHz	L604 (X11)	0V	(a)
2	DISTORTION (MONO)	(A) 98.0MHz 1kHz, ±40kHz dev. MONO 70dBf (ANT. input)	(B)	MONO 98.0MHz	L605 (X11)	Minimum distortion	(a)
3	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ±40kHz dev. Selector : L or R Pilot : ±6kHz dev. 70dBf (ANT. input)	(B)	AUTO 98.0MHz	IFT(RF FRONTEND : A601)	Minimum distortion (L or R)	(a)
4	TUNING LEVEL	(A) 98.0MHz MONO 1kHz, ±40kHz dev. 25dBf (ANT. input)	(B)	MONO 98.0MHz	VR601 (X11)	Adjust VR601 and stop at the point where ED1 (TUNED) goes on.	(a)
AUDIO SECTION		**SPEAKER : A**		**PREOUT : OFF**		**PROLOGIC : ON**	
<1>	IDLE CURRENT	—	Connect a DC voltmeter across CN1 (each port) 1, 2 pin : L 5, 6 pin : R 3, 4 pin : SL 7, 8 pin : SR 9, 10 pin : C	(FRONT 2ch MODE) Volume:0	VR1(L) VR2(R) VR3(SL) VR4(SR) VR5(CENTER) (X07-)	10mV	

SYSTEM CONNECTIONS



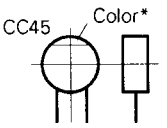
KRF-X9992D/X9992DE

PARTS DESCRIPTIONS

CAPACITORS

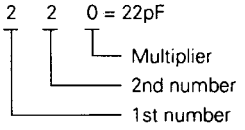
CC 45 TH 1H 220 J
1 2 3 4 5 6

1 = Type ... ceramic, electrolytic, etc.
2 = Shape ... round, square, ect.
3 = Temp. coefficient
4 = Voltage rating
5 = Value
6 = Tolerance



• Capacitor value

010 = 1pF
100 = 10pF
101 = 100pF
102 = 1000pF = 0.001μF
103 = 0.01μF



• Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	-80	-150	-220	-330	-470	-750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = -470 ± 60ppm/°C

• Tolerance (More than 10pF)

Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40	+80	+100	More than 10μF - 10 ~ +50
							-20	-20	-0	Less than 4.7μF -10 ~ +75

(Less than 10pF)

Code	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

• Voltage rating

1st word \ 2nd word	A	B	C	D	E	F	G	H	J	K	V
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	-
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	-
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	-

• Chip capacitors

(EX) C C 7 3 F S L 1 H 0 0 0 J
1 2 3 4 5 6 7
(Chip) (CH, RH, UJ, SL)

(EX) C K 7 3 F F 1 H 0 0 0 Z
1 2 3 4 5 6 7
(Chip) (B, F)

Refer to the table above.
1 = Type
2 = Shape
3 = Dimension
4 = Temp. coefficient
5 = Voltage rating
6 = Value
7 = Tolerance

Dimension (Chip capacitors)

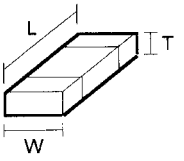
Dimension code	L	W	T
Empty	5.6 ± 0.5	5.0 ± 0.5	Less than 2.0
A	4.5 ± 0.5	3.2 ± 0.4	Less than 2.0
B	4.5 ± 0.5	2.0 ± 0.3	Less than 2.0
C	4.5 ± 0.5	1.25 ± 0.2	Less than 1.25
D	3.2 ± 0.4	2.5 ± 0.3	Less than 1.5
E	3.2 ± 0.2	1.6 ± 0.2	Less than 1.25
F	2.0 ± 0.3	1.25 ± 0.2	Less than 1.25
G	1.6 ± 0.2	0.8 ± 0.2	Less than 1.0

RESISTORS

• Chip resistor (Carbon)

(EX) R K 7 3 E B 2 B 0 0 0 J
1 2 3 4 5 6 7
(Chip) (B,F)

Dimension



Dimension (Chip resistor)

Dimension code	L	W	T
E	3.2 ± 0.2	1.6 ± 0.2	1.0
F	2.0 ± 0.3	1.25 ± 0.2	1.0
G	1.6±0.2	0.8±0.2	0.5±0.1

• Carbon resistor (Normal type)

(EX) R D 1 4 B B 2 C 0 0 0 J
1 2 3 4 5 6 7

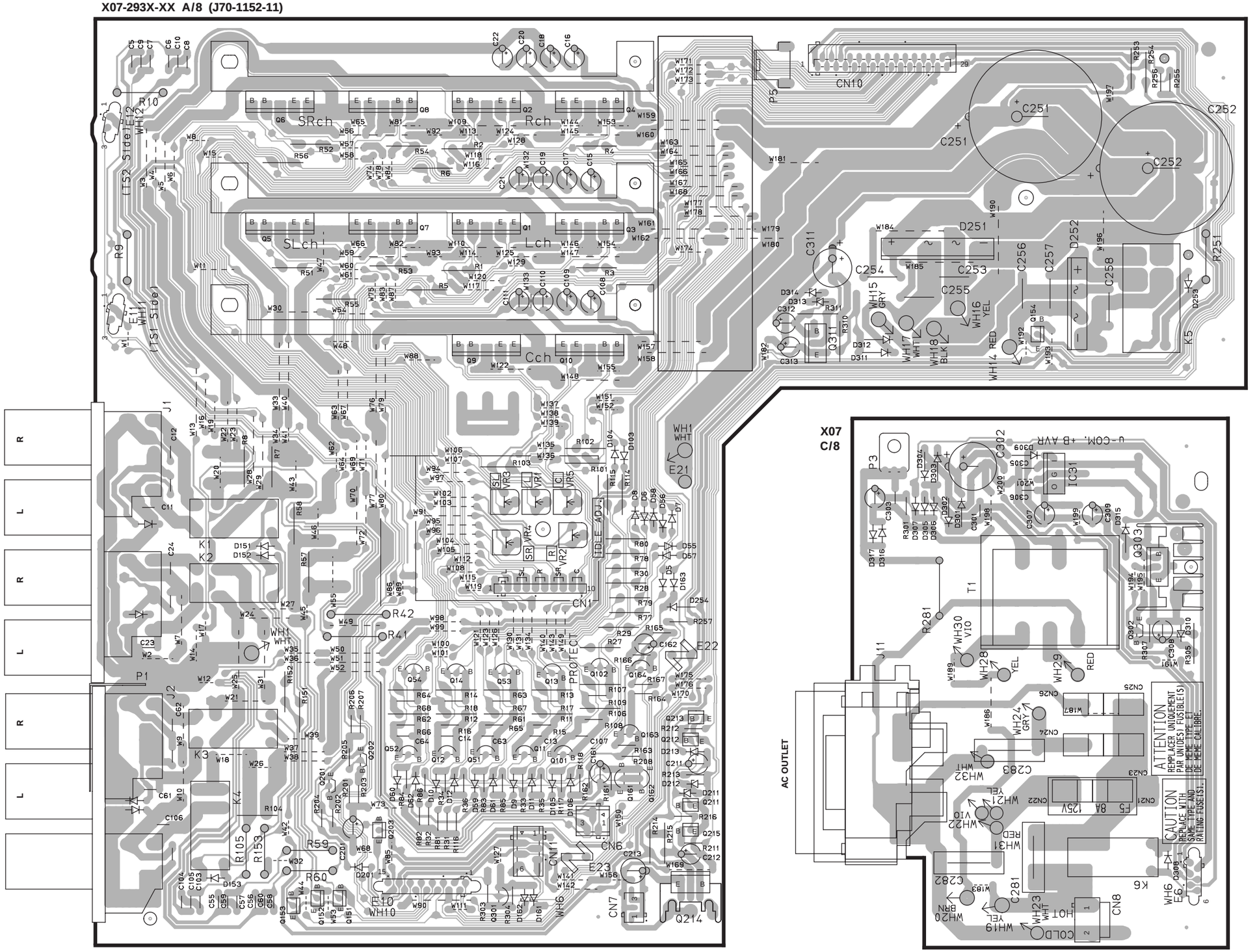
1 = Type
2 = Shape
3 = Dimension
4 = Temp. coefficient
5 = Rating wattage
6 = Value
7 = Tolerance

Rating wattage

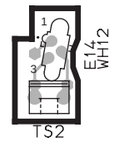
Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		

PC BOARD (Component side view)

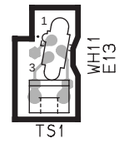
X07-293X-XX A/8 (J70-1152-11)



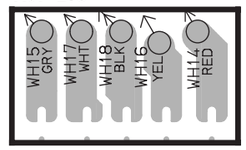
X07 H/8



X07 G/8



X07 B/8



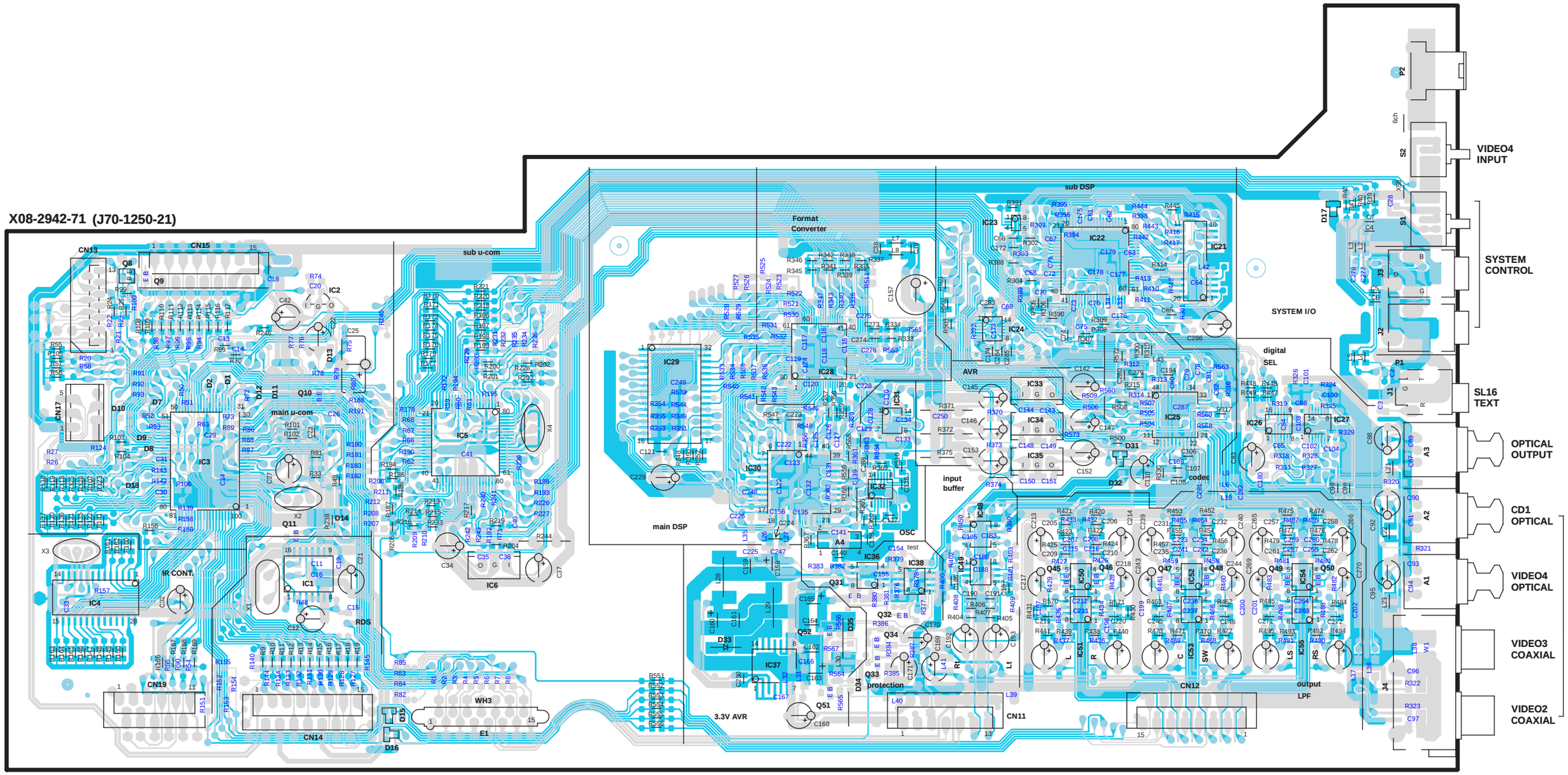
X07 C/8

X07 E/8

X07 D/8

Refer to the schematic diagram for the value of resistors and capacitors.

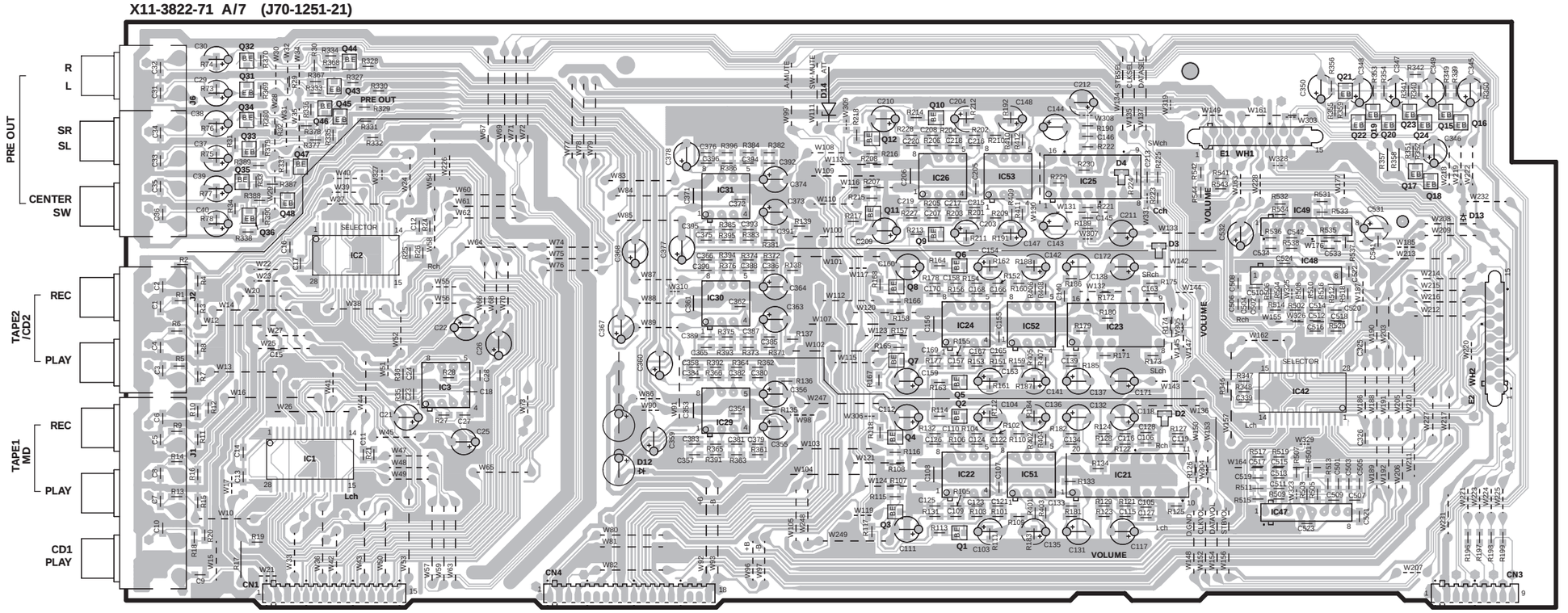
PC BOARD (Component side view)



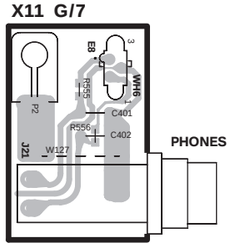
Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD (Component side view)

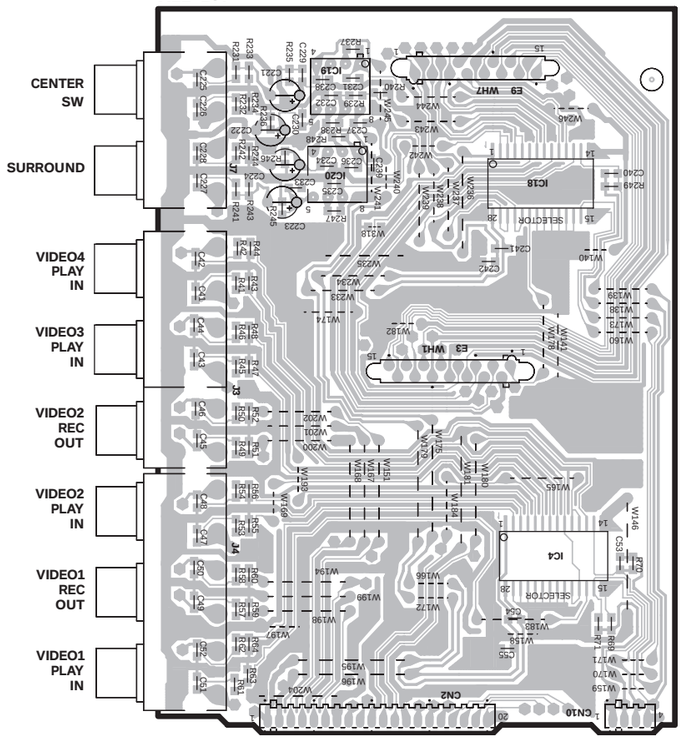
X11-3822-71 A/7 (J70-1251-21)



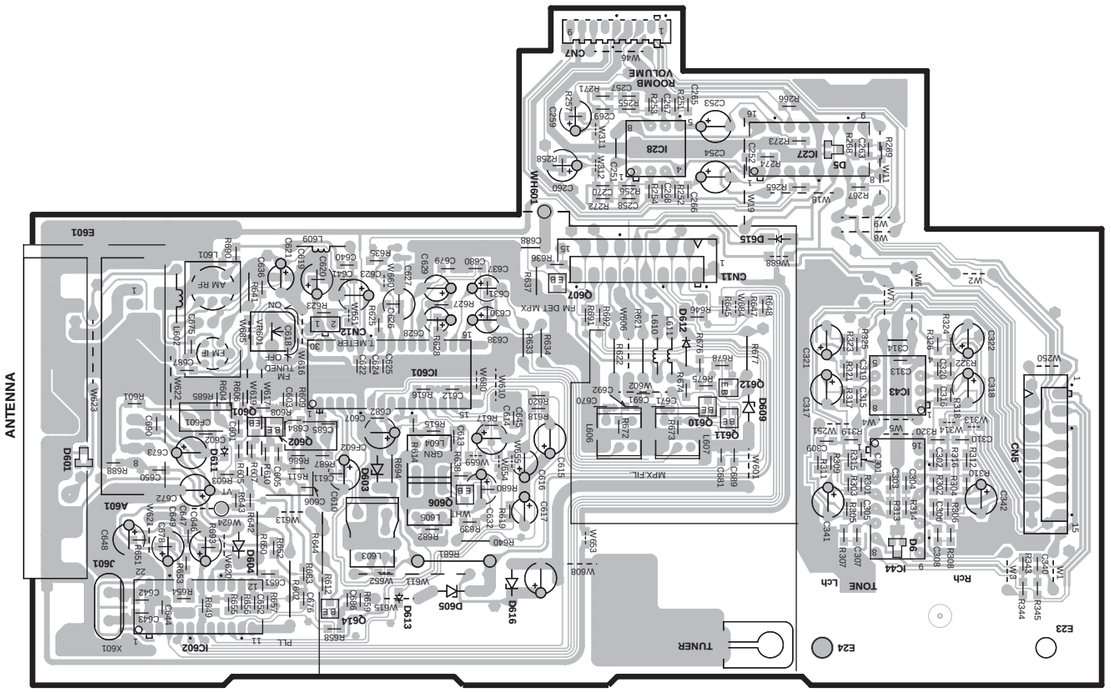
X11 G/7



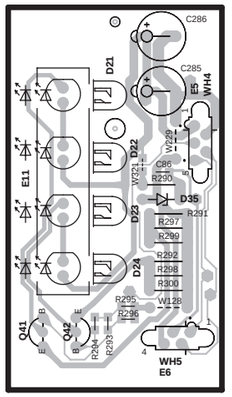
X11 B/7



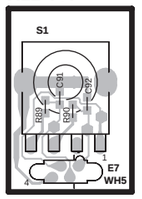
X11 C/7



X11 D/7



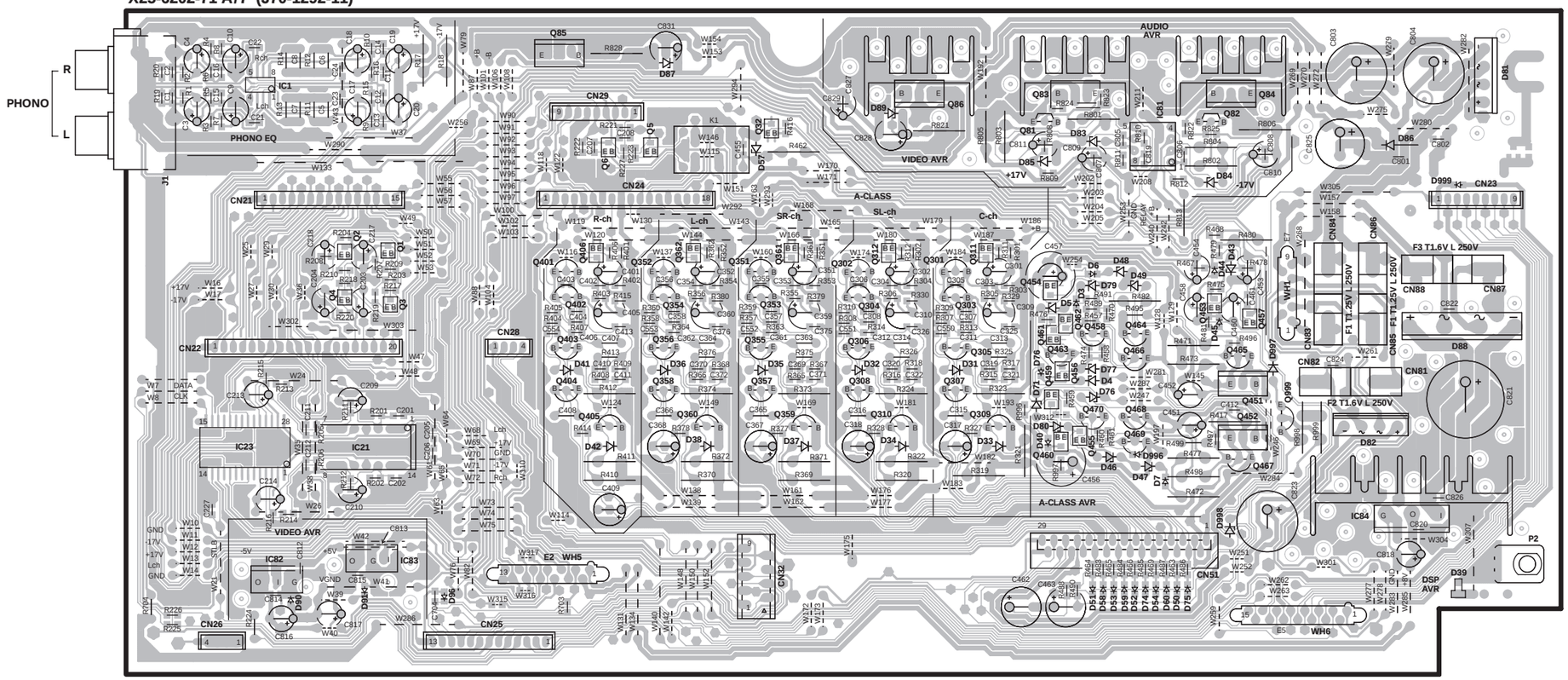
X11 F/7



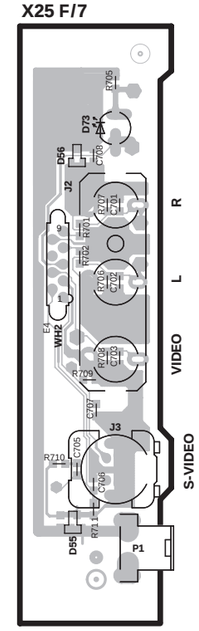
Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD(Component side view)

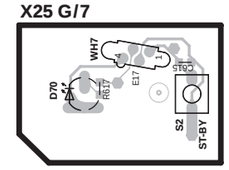
X25-6202-71 A/7 (J70-1292-11)



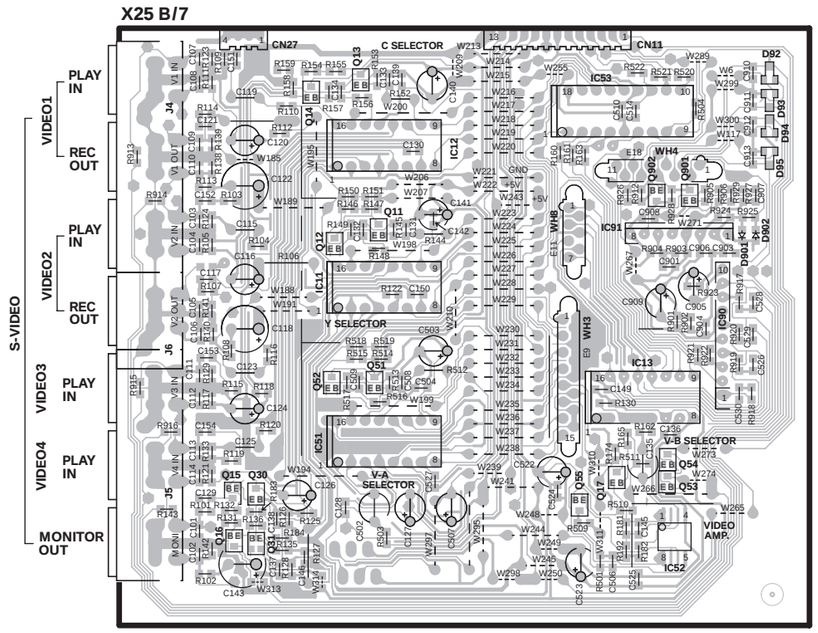
X25 F/7



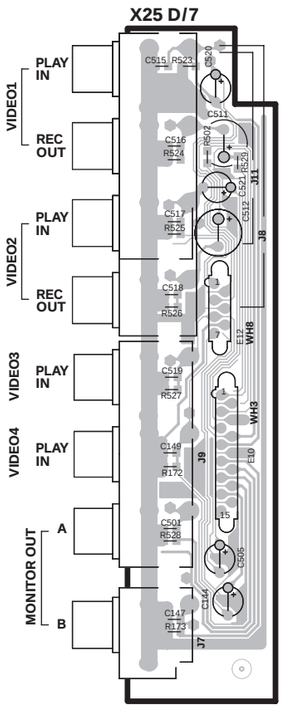
X25 G/7



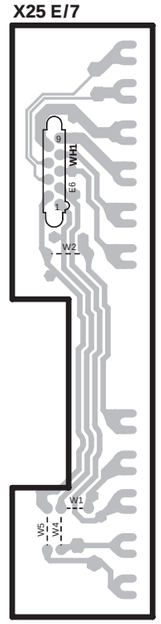
X25 B/7



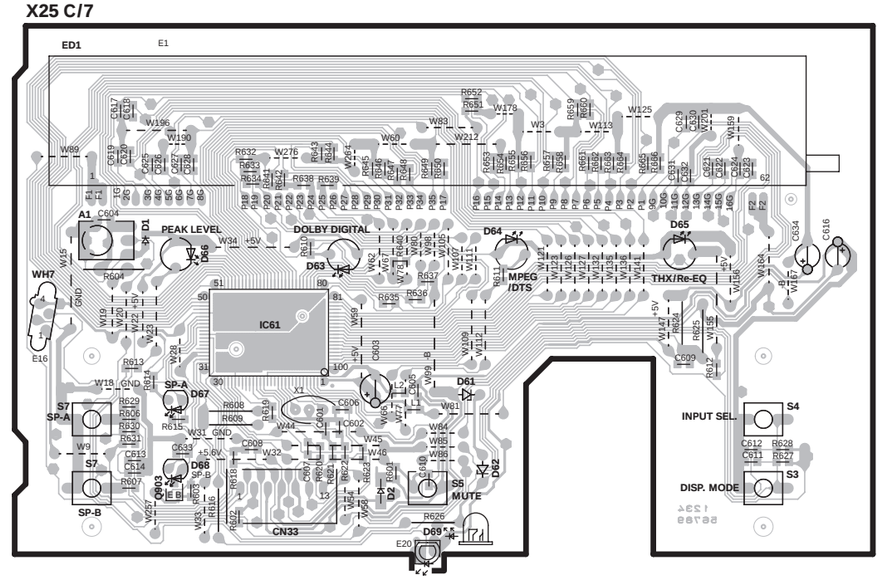
X25 D/7



X25 E/7



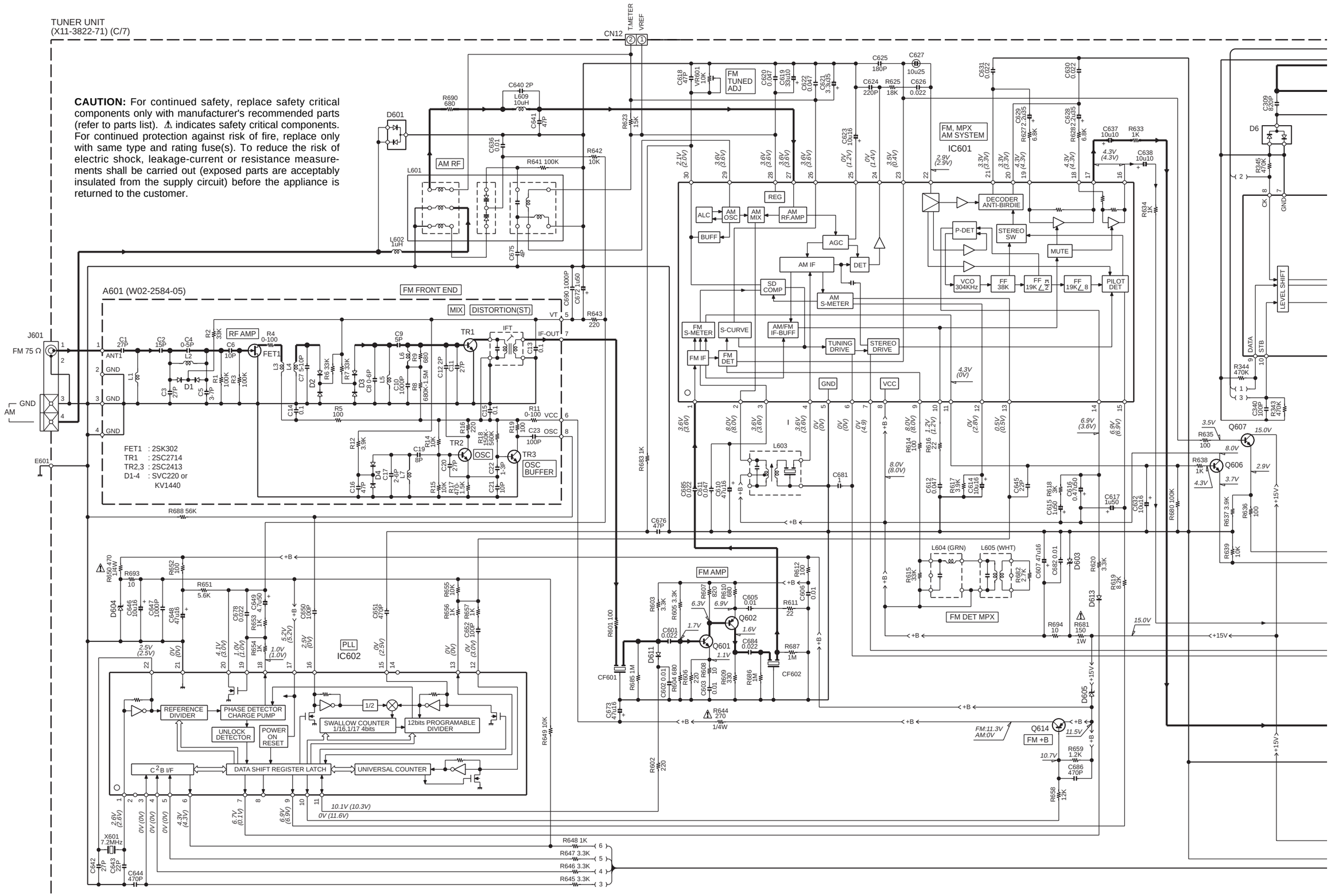
X25 C/7



Refer to the schematic diagram for the value of resistors and capacitors.

TUNER UNIT
(X11-3822-71) (C/7)

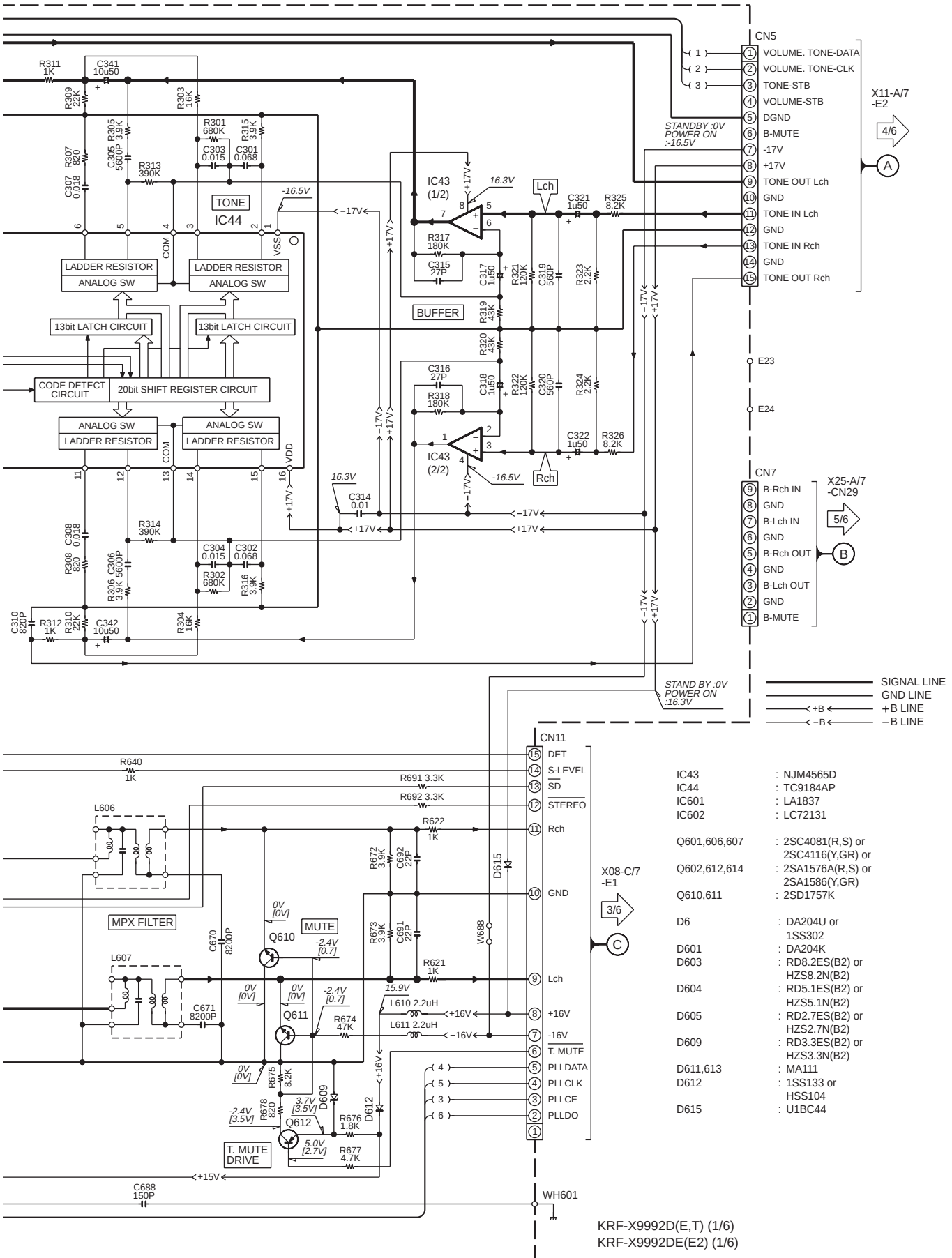
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.



The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in ( ) is actual reading measured in the AM mode.

MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB

(X11-3822-71) (C/7)



IC43	: NJM4565D
IC44	: TC9184AP
IC601	: LA1837
IC602	: LC72131
Q601,606,607	: 2SC4081(R,S) or 2SC4116(Y,GR) or
Q602,612,614	: 2SA1576A(R,S) or 2SA1586(Y,GR)
Q610,611	: 2SD1757K
D6	: DA204U or 1SS302
D601	: DA204K
D603	: RD8.2ES(B2) or HZS8.2N(B2)
D604	: RD5.1ES(B2) or HZS5.1N(B2)
D605	: RD2.7ES(B2) or HZS2.7N(B2)
D609	: RD3.3ES(B2) or HZS3.3N(B2)
D611,613	: MA111
D612	: 1SS133 or HSS104
D615	: U1BC44

KRF-X9992D(E,T) (1/6)
KRF-X9992DE(E2) (1/6)

KRF-X9992D/X9992DE

Y05-3892-70

KENWOOD

ELECTRIC UNIT (X25-6202-71) (B/7)

IC11,12,51	CLT (CONTROL)				
① MONITOR OUT	⑬ A	⑪ B	⑨ C	⑧ D	⑦ E
VIDEO1	L	L	L	L	L
VIDEO2	H	L	H	L	L
VIDEO3	L	H	L	H	L
VIDEO4	H	H	H	H	L
AV AUX	H	H	H	H	H
IC53 PORT	P1	P3	P2	P4	P5

J4 (S1 VIDEO)
PLAY
VIDEO 1
REC
PLAY
VIDEO 2
REC
J6
J5
VIDEO 3 (PLAY IN)
VIDEO 4 (PLAY IN)
MONITOR OUT
V-MUTE
IC12
C SELECTOR
IC11
Y SELECTOR
BUFFER
Q11,12,31 BUFFER
Q13,14,30 BUFFER
+5V
−5V
0V
0.7V
5.6V
0.8V
2.0V
0.5V
1.2V
0.4V
1.6V
0.6V

(X25-6202-71) (B/7)

IC90 PERFECT MACRO DETECTOR

IC90	CONTROL	
⑩ V OUT	② A	③ B
VIDEO1	L	H
VIDEO2	L	L
VIDEO3	H	H
VIDEO4	H	L

IC91(1/2) AD → DC

IC91 (2/2) BUFFER INV

Q52 VIDEO1 REC OUT BUFFER

Q901

D901 D902

CN11
1 MUTE
2 FAN-ON
3 FAN-H/L
4 DATA
5 CLK
6 VST
7 +5V
8 -5V
9 TAPE-2
10 FRONT-V
11 FRONT-C
12 FRONT-Y
13 V-GND

CN27
1 GND
2 GND
3 GND
4 GND

5V AVR

Q902

E18 WH4
11 CONT-A
10 CONT-B
9 CONT-P
8 GND
7 +5V
6 SYNC
5 V-1
4 V-2
3 V-3
2 V-4
1 WIDE

IC51 COMPOSITE VIDEO SEL.

IC52 (2/2) BUFFER

IC52 (1/2) BUFFER

IC53

Q51 Q53 Q54 Q55

VIDEO MUTE

V-SEL. FAN-M CONTROL

(X25-) (D/7)

E11 WH8 E12

E9 WH3 E10

J8 (VIDEO/COMPOSITE)
1 IN — VIDEO 1
2 OUT
3 IN — VIDEO 2
4 OUT

J9
3 MONI A — MONITOR OUT
VIDEO 3 1 PLAY IN
VIDEO 4 2 PLAY IN

(X25-)

IC11,12,51	:	SN761200N
IC52	:	MC14577CF
IC53	:	NJU3713D
IC90	:	BA7645N
IC91	:	NJM4580L

Q11-14,30,31,51,52,901 : 2SC4081(R,S)
Q15,16,55 : 2SC4213(B)
Q53 : UN5119 or DTA113ZUA
Q54 : UN5212 or DTC124EUA
Q902 : 2SA1611(M5,M6)

D901,902 : MA111

(X11-)

IC4	:	TC9163AF
IC18	:	TC9164AF
IC19,20	:	NJM4565D

CONTROL UNIT (X11-3822-71) (B/7)

VOL IN SR, GND, VOL IN SL, GND, VOL IN SW — WH7 E9

IC19 (1/2) BUFFER

IC19 (2/2)

IC20 (2/2) BUFFER

IC20 (1/2)

VIDEO 4 6ch INPUT

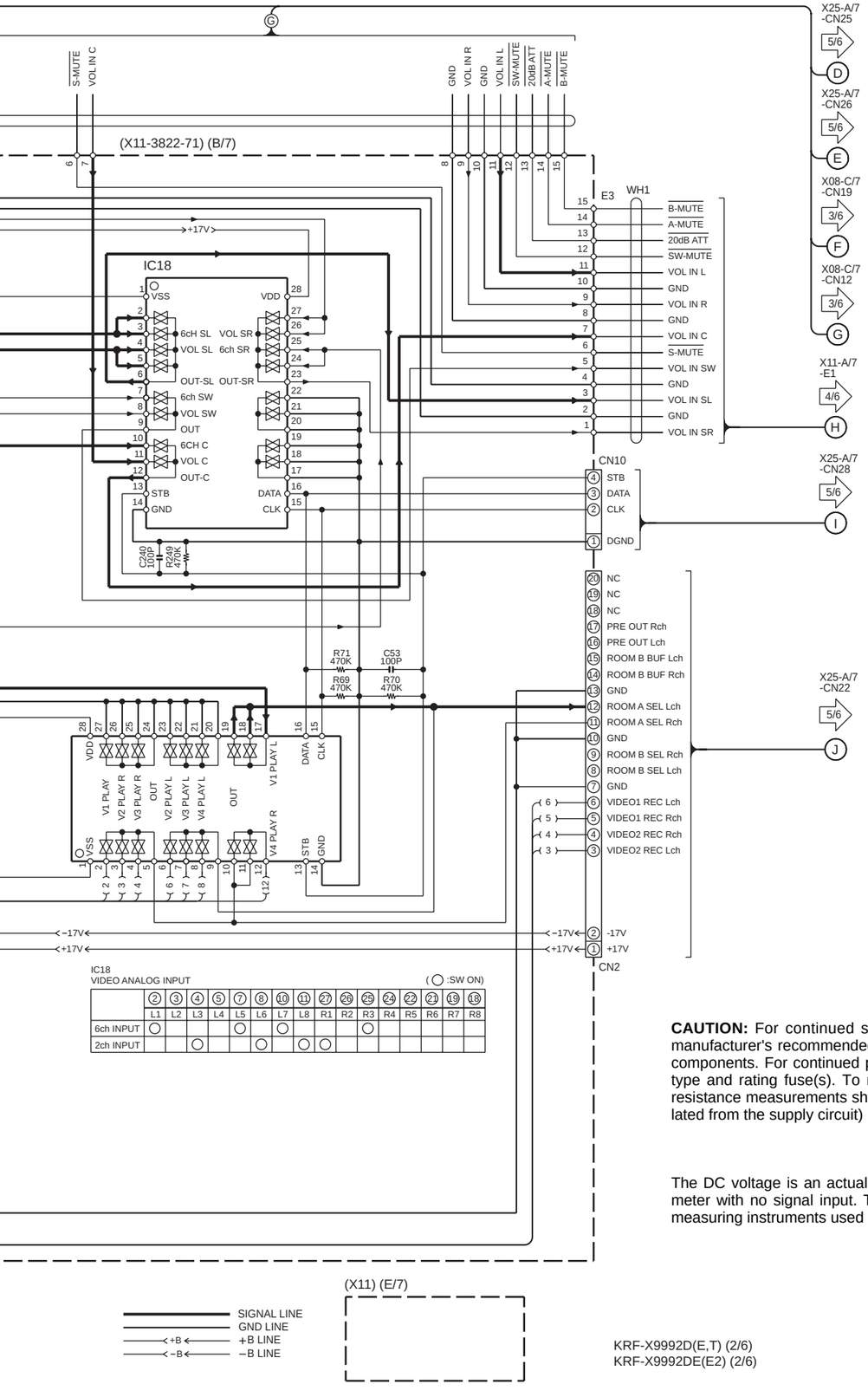
CENTERch 1
SWch 2
Lch 4
SURROUND
Rch 3

IC18 VOL.OUTPUT/ 6ch INPUT SEL.

IC4 VIDEO(AUDIO) INPUT SEL.

J7
J3
J4

Lch 2 — VIDEO 4 PLAY IN — Rch 1
Lch 4 — VIDEO 3 PLAY IN — Rch 3
Lch 6 — VIDEO 2 REC OUT — Rch 5
Lch 2 — VIDEO 2 PLAY IN — Rch 1
Lch 4 — VIDEO 1 REC OUT — Rch 3
Lch 6 — VIDEO 1 PLAY IN — Rch 5



IC18
VIDEO ANALOG INPUT (◯ :SW ON)

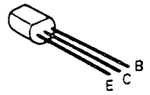
	②	③	④	⑤	⑦	⑧	⑩	⑪	㉗	㉖	㉕	㉔	㉒	㉑	⑲	⑱
	L1	L2	L3	L4	L5	L6	L7	L8	R1	R2	R3	R4	R5	R6	R7	R8
6ch INPUT	◯				◯		◯				◯					
2ch INPUT			◯			◯		◯	◯							

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

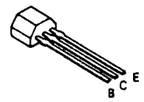
The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

KRF-X9992D(E,T) (2/6)
KRF-X9992DE(E2) (2/6)

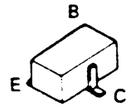
2SA1123
2SA992
2SC1845
2SC2003
2SC2631
2SC3244
2SC3940A



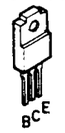
DTC124ESA
2SA1048
2SC2458



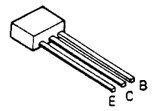
UN5116
UN5119
2SA1576A
2SA1586
2SC4116



2SA1535
2SB1370
2SC3944
2SD2061

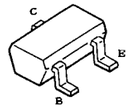


UN4212
UN4219
2SA1309A
2SC3311A

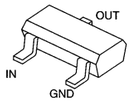


2SB1375
2SD2012

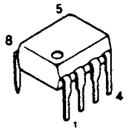
2SC4081
2SD1757K



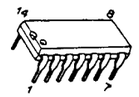
DTA143TUA
DTC124EUA



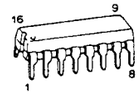
NJM4558D
NJM4565D



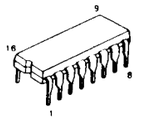
NJM2058D



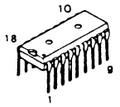
TC9184AP



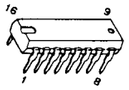
TC9413P



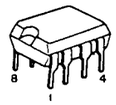
NJU3713D



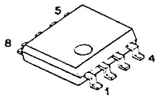
SN761200N



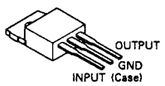
NJM4580L



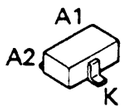
MC14577CF
NJM4565M
NJM4580ED
TC7W04FU



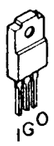
LM2940CT-5.0



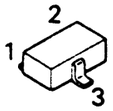
DAN202U



UPC7805AHF



DAP202U
DA204K
DA204U



Y05-3892-70

KRF-X9992D/X9992DE

KENWOOD

AO AP AQ AR AS AT AU AV AW AX

1 2 3 4 5 6 7

SURROUND UNIT (X08-2942-71)

X25-B/7 -E18 2/6 (F)

VIDEO2 COAXIAL
VIDEO3 COAXIAL
DIGITAL IN
VIDEO4 OPTICAL
CD1 OPTICAL
CD1 OPTICAL

DIGITAL INPUT SELECTOR
IC26

IC26

INPUT TYPE	SEL. OUTPUT	① DI/AI(PIN79)	⑮ DSG(PIN78)	② DSB(PIN77)	⑭ DSA(PIN76)
ANALOG ONLY	EXCEPT CD1 VIDEO2 VIDEO3 VIDEO4	H	H	OPTION	OPTION
ANALOG	CD1 VIDEO2 VIDEO3 VIDEO4	H	H	OPTION	OPTION
DIGITAL	CD1	L	L	H	H
	VIDEO2	L	L	L	H
	VIDEO3	L	L	L	L
	VIDEO4	L	L	H	L

IC27 INVERTER

IC21 IM DRAM

IC22 THX Re-EQ CONFIG. (DSP)

IC24 DIVIDER

IC23 INVERTER

IC32 DIVIDER

IC33 5V AVR

DIGITAL (FL,FR)
DIGITAL (C,SW)
DIGITAL (SL,SR)

CLOCK OSC/ DIVIDER
SERIAL AUDIO DATA INTERFACE
MUX
DEM
PLL
S/P DIF RX/AUXILIARY INPUT

E1
DE-EMPH
PLL DO
PLL CE
PLL CLK
PLL DATA
T MUTE
-16V
+16V
T Lch
T GND
T Rch
STEREO
SD
S-LEVEL
DE OUT

X11-C/7 -CN11 1/6 (C)
X11-B/7 -E9 2/6 (G)

(X08-2942-71)

ANALOG LOW PASS AND OUTPUT STAGE

VOLUME CONTROL

DAC #1 DAC #2 DAC #3 DAC #4 DAC #5 DAC #6

IC25 DIR D/A,A/D CONVERTER

DIGITAL FILTERS

VOLTAGE REFERENCE

MONO ADC LEFT ADC RIGHT ADC

INPUT GAIN

INPUT MUX

CONTROL PORT

IC28 FORMAT CONVERTER

IC29 ROM

IC30 PROLOGIC DOLBY DIG (AC3) MPEG

IC31 5V → 3.3V BUFFER

IC34 5V AVR

IC35 5V AVR

IC36 3.3V → SHANT REGULATOR (PROTECT)

IC37

IC38 5V SHANT REGULATOR (PROTECT)

DC-DC CONTROL (3.3V)

Q31 7.4V ON/OFF

Q32,51,52 PROTECTION

D31 D32 D33

(X08-2942-71)

CN12
RS
GND
LS
GND
SW
S-MUTE
C
GND
RO
GND
LO
CN11
Lt
GND
Rt
GND
T L
T GND
T R
GND
+17V
·17V
NC
+8V
D GND

SLch
Cch
RLch
SWch
21KHz LPF
AMP
SUB MUTE CONT.
MUTE
MUTE DRIVE
Q45-50
IC51,53,55
BUFFER

IC54 (2/2)
IC54 (1/2)
IC55 (2/2)
IC55 (1/2)
IC53 (2/2)
IC52 (2/2)
IC52 (1/2)
IC53 (1/2)
IC51 (2/2)
IC50 (2/2)
IC50 (1/2)
IC51 (1/2)
IC49 (2/2)
IC48 (1/2)
IC48 (2/2)
IC49 (1/2)

Q49
Q50
Q47
Q48
Q45
Q46
Q52
Q33
Q34

D35
D34

R552 1K
R554 1K
R553 2.2K
R556 1K
R555 1K
R551 1K
R565 100
R566 100
R567 1K
R384 1K
R385 33K
R386 1.2K
R387 68K
L40 100uH
L41 100uH
L39
L31
L32

IC5
SUB u-COM
CS4226
KAG09
DSP56607
MAIN
SUB MUTE
OVL/ERR
AU
AC3
DATA IN
ABOOT_1
CS25_RST
CS 25
VDD
X2
X1
X4 4.23MHz
XIC(VPP)
XT2
XT1
AVDD
AVREF0
DSA
DSB
DSG
DI/AI
INT/BOUT
RST
FREQ0
FREQ1
PDN
SCDIN
SCDOUT
SCCLK
MDT
SDT
MCK
MREQ
SREQ
DSP-SO
DSP-SI
DSP CK
PEAK LEVEL
DSP_HR
DSP_SS
DSP_RST

IC6
5V AVR
IN
OUT
GND

IC4
D0
D1
D2
D3
D4
D5
D6
D7
RESET
GND
XT I
XT O
VDD
455K
PTR ENB
PWR
PWR REQ

Q11
INVERTER (PROTECT)

D16
D15
D14

+8V
+5V
+17V
−17V

(X08-2942-71)

WH4 — CN19: CONT-A, CONT-B, CONT-P, GND, +5V, SYNC, V-1, V-2, V-3, V-4, WIDE

WH10 — CN15: I PROTECT, V PROTECT, RELAY POWER, RELAY TR, RELAY CS, RELAY B, RELAY A, 10W, 1W, THERMAL SW, FIRST OFF, U COM +5.6V, U COM GND, FL -B, +14V

X07-A/8 -E10 6/6 — K

REMOTE CARRIER

X3 3.64MHz; C32 10u50; C33 0.1

R157 100

STANDBY LED DRIVE — Q9; R100 10K; R99 10K

PEAK L.LED DRIVE — Q8

C42 47u10

J1 — SL16 TEXT; J2 — SYSTEM CONTROL; J3 — SYSTEM CONTROL

D17; C28 0.01; SL16; R246 1K; P1; S1 XS8

VIDEO 4 INPUT — S2 2ch; R33 10K; R245 1K; 6ch

D18; D10; D8; D7; D9; R53 100K; R52 100K; R51 100K; R50 100K; C14 100P; C13 100P

IC3 MAIN u-COM

CN17: ENC 2, ENC 1, 455K CARR, UCOM GND, +12V

CN13: P LEVEL, REMOCON, RELAY POWER, FL STB, FL -B, U COM GND, U COM +B, FL CLK, DATA IN, DATA OUT, FL RESET, F2, F1

CN14: V MUTE, SEL DATA, SEL CLK, V STB, SEL STB2, D GND, SEL STB1, V.T DATA, V.T CLK, VOL STB, TONE STB, +5.6V, ROOM B, FL F2, FL F1

X25-C/7 -CN33 6/6 — L

X25-A/7 -E5 5/6 — M

WH6

X25-A/7 -E2 5/6 — N

WH5

D1; D2

D11; D12

RESET IC — IC2; Q10; RESET; D13

RDS DATA DEMODULATER — IC1; X1 4.332MHz; X2 4.194 MHz

(X11-) (D/7)

WH4 — E5

+12V; GND; 455K; ENC1; ENC2

IR REMOTE TRANSMIT — D21 D22 D23 D24; Q41; Q42

R290 1K; R294 390; R293 390

VOLUME (ENCODER) — S1; R89 220; R90 220; C91 0.01; C92 0.01

WH5 — E6, E7; ENC2, ENC1, +5V, GND

(X11-) (D/7)

Q41,42 : 2SC3940A(R,S)

D21-24 : B30-2532-05

D35 : HZS5.1N(B2) or RD5.1ES(B2)

(X08-2942-70) (C/7)

IC1	: TDA7479D	Q8,9	: UN5212
IC2	: S-806D-Z	Q10	: 2SC4081(R,S)
IC3	: uPD78078GF-086	Q11	: UN5119
IC4	: uPD17215GT-737	Q31	: 2SB1424(Q,R)
IC5	: uPD78056GC-A23	Q32	: 2SA1576A(R,S)
IC6	: TA7805S	Q33,51,52	: 2SC4081(R,S)
IC21	: LH64256CK-70	Q34	: UN5119
IC22	: DSPB56007FJ88	Q45-50	: 2SC4213(B)
IC23	: TC7W04FU		
IC24	: TC74VHCT74AFT	D1,2,14,17	: DA204U
IC25	: CS4226KQG	D7,8,13	: MA111
IC26	: TC74VHC153FT	D9,18	: DAN202U
IC27	: TC74VHCU04FT	D10,15,16	: DAP202U
IC28	: KAG09	D11,12	: U1BC44
IC29	: MX27L2000MC-20	D31,32	: DA204U
IC30	: CS492501-CLB	D33	: D2FS4
IC31	: TC74VHC125FT	D34,35	: UDZ18B
IC32	: TC74VHC74FT		
IC33-35	: LM2940CT-5.0	A1,2	: W02-1181-05
IC36,38	: TL431CPS	A3	: W02-1114-15
IC37	: LM2574M-3.3	A4	: W02-2671-05
IC48-55	: NJM4565M		

SIGNAL LINE
GND LINE
+B LINE
−B LINE

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The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

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KRF-X9992D(E,T) (3/6)
KRF-X9992DE(E2) (3/6)

Y05-3892-70

KRF-X9992D/X9992DE

KENWOOD

CC CD CE CF CG CH CI CJ CK CL

1 2 3 4 5 6 7

CONTROL UNIT
(X11-3822-71) (A/7)

X11-C/7
-CN5
1/6
A

X11-B/7
-E3
2/6
H

WH2
E2
TONE OUT Rch
GND
TONE IN Rch
GND
TONE IN Lch
GND
TONE OUT Lch
+B
-B
B.MUTE
DGND
VOL-STB
TONE-STB
CLK
DATA

CN3
TONE-STB
VOL-STB
TONE. VOL-SCLK
TONE. VOL-DATA
SEL DATA
SEL SCLK
SEL STB
D-GND
+17V

R199 1K
R198 1K
R197 1K
R196 1K

IC42
SELECTOR
(DIRECT DAC
LOW BOOST)
(BYPASS TONE)

WH1
E1
VOL IN SR
GND
VOL IN SL
GND
VOL IN SW
S-MUTE
VOL IN C
GND
VOL IN R
GND
VOL IN L
SW-MUTE
20dB ATT
A-MUTE
B-MUTE

R541 10
R542 10
R537 100

IC42
Lch
Rch
VSS
VDD
S.D
DAC
CONF2
PASS
TONE
L
R
SR
SL
STB
DATA
CLK
GND

C325 0.01
C326 150P
C339 100P
R346 470K
R347 470K
R348 470K

IC49
(1/2)
IC49
(2/2)
BUFFER
C531 47u16
C532 47u16
R533 3.9K
R534 3.9K
R535 3K
R536 3K
C533 100P
C534 100P
R538 100
C541 0.01
C542 150P
R531 100K
R532 100K

IC48
(1/2)
IC48
(2/2)
IC47
(1/2)
IC47
(2/2)
LOW
BOOST(R)
LOW
BOOST(L)
16.3V
-16.5V
C506 0.1
C504 0.1
C502 0.1
C510 0.033
C522 0.01
C524 150P
C505 0.1
C503 0.1
C501 0.1
C509 0.033
C521 0.01
C523 150P
R502 33K
R504 18K
R506 33K
R501 33K
R503 18K
R505 33K
R508 10K
R507 10K
C512 0.1
C514 0.1
C516 0.033
R510 7.5K
R512 10K
C511 0.1
C513 0.1
C515 0.033
R509 7.5K
R511 10K

D13
1N4

A-MUTE
DRIVE
S-MUTE
DRIVE
SW-MUTE
DRIVE
-20dB ATT
DRIVE
Q15
Q23
Q19
Q21
Q16
Q24
Q20
Q22
ON:15.4V
OFF:-15.9V
ON:14.2V
OFF:15.5V
2.5V
ON:1.8V
OFF:4.9V
C345 10u50
C349 10u50
C347 10u50
C348 3.3u50
C350 0.1u50
R355 1.1K
R359 10K
R357 4.7K
R358 6.8K
R356 10K
R354 68K
R352 10K
R350 68K
R339 2.4K
R349 2.4K
R340 2.4K
R341 2.4K
R353 1.2K

J2
Lch 2
REC OUT
Rch 1
Lch 4
PLAY IN
Rch 3
CD2/TAPE2
J1
Lch 2
REC OUT
Rch 1
Lch 4
PLAY IN
Rch 3
MD/TAPE1
Lch 6
CD1
Rch 5
R1 220
R2 220
R3 220K
R4 220K
R5 1K
R6 1K
R7 220K
R8 220K
R9 220
R10 220
R11 220K
R12 220K
R13 1K
R14 1K
R15 220K
R16 220K
R17 1K
R18 1K
R19 220K
R20 220K
C1 220P
C2 220P
C3 220P
C4 220P
C5 220P
C6 220P
C7 220P
C8 220P
C9 220P
C10 220P

INPUT SEL.
IC2
Lch
IC1
Rch
GND
CLK
ST
STB
DATA
IN
CD2/T2 REC
MD/T1 REC
AV AUX
T2 PLAY
IN
OUT
A ROOM B OUT
CD2/T2 PLAY
SL
SR
MD/T1 PLAY
MD/T2 PLAY
CD1
CD
VSS
VDD
C12 100P
R24 470K
R26 470K
R25 470K
C11 100P
R23 470K
C14 150P
C13 0.01
C16 150P
C17 0.01

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

(X11-3822-71) (A/7)

SIGNAL LINE
GND LINE
+B ← +B LINE
−B ← −B LINE

IC42 (○ :SW ON)

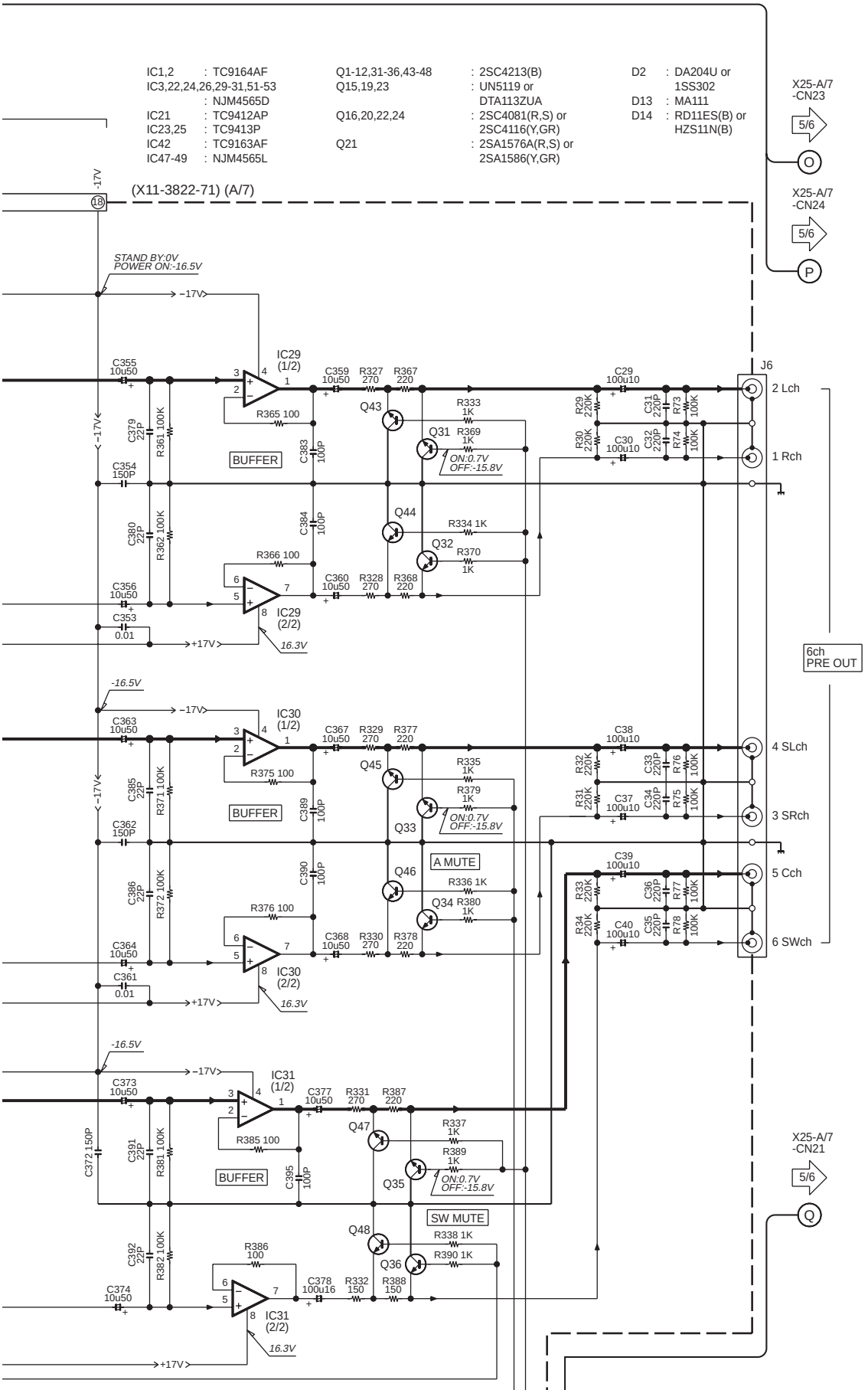
		②,㉗ SW1	③,㉖ SW2	④,㉕ SW3	⑥,㉓ SW4	⑧,㉑ SW6	⑩,⑲ SW7	⑪,⑱ SW8
2ch ANALOG INPUT	STREO & Fch LARGE	○						
	LOW BOOST OFF		○					
	LOW BOOST ON			○				
DIGITAL	LOW BOOST OFF		○					
	LOW BOOST ON			○				
TONE ON	STEREO					○		
	STEREO EXCEPT				○			
TONE OFF					○			
SPEAKER B ON							○	
SPEAKER B OFF								○
6ch ANALOG INPUT		○			○			○
TEST TONE ON	BASS PEAK LEVEL SWch		○		○			○
	BASS PEAK LEVEL NON SWch			○	○			○
	NORMAL		○		○			○

CN4: ① DIRECT Rch ② GND ③ DIRECT Lch ④ GND ⑤ NC ⑥ NC ⑦ GND ⑧ VOL OUT R ⑨ GND ⑩ VOL OUT L ⑪ VOL OUT SR ⑫ VOL OUT SL ⑬ VOL OUT C ⑭ GND ⑮ +17V ⑯ NC ⑰ NC

CN1: ① +17V ② −17V ③ GND ④ VIDEO2 REC Lch ⑤ VIDEO2 REC Rch ⑥ VIDEO1 REC Rch ⑦ VIDEO1 REC Lch ⑧ ROOM B SEL Lch ⑨ ROOM B SEL Rch ⑩ ROOM A SEL Rch ⑪ ROOM A SEL Lch ⑫ TAPE2 MONITOR Rch ⑬ TAPE2 MONITOR Lch ⑭ AUX Lch ⑮ AUX Rch

IC21 E-VOL. LOUDNESS (DATA, STB, CLK, GND, CS2, CS1, A-GND, NC, LD2, LD1, IN, OUT, VSS, VDD)
IC23 E-VOL.
IC25 E-VOL.
IC51 (1/2), IC51 (2/2), IC52 (1/2), IC52 (2/2), IC53 (1/2), IC53 (2/2)
IC22 (1/2), IC22 (2/2), IC24 (1/2), IC24 (2/2), IC26 (1/2), IC26 (2/2)
IC3 (1/2), IC3 (2/2)
Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12
D2, D14
REC OUT BUFF
-20dB ATT
AMP
MUTE
Lch, Rch, SLch, SRch, Cch, SWch

STAND BY:0V POWER ON:16.3V
STAND BY:0V POWER ON:-16.5V
ON:0.7V OFF:-15.8V
-16.4V
16.4V
16.3V

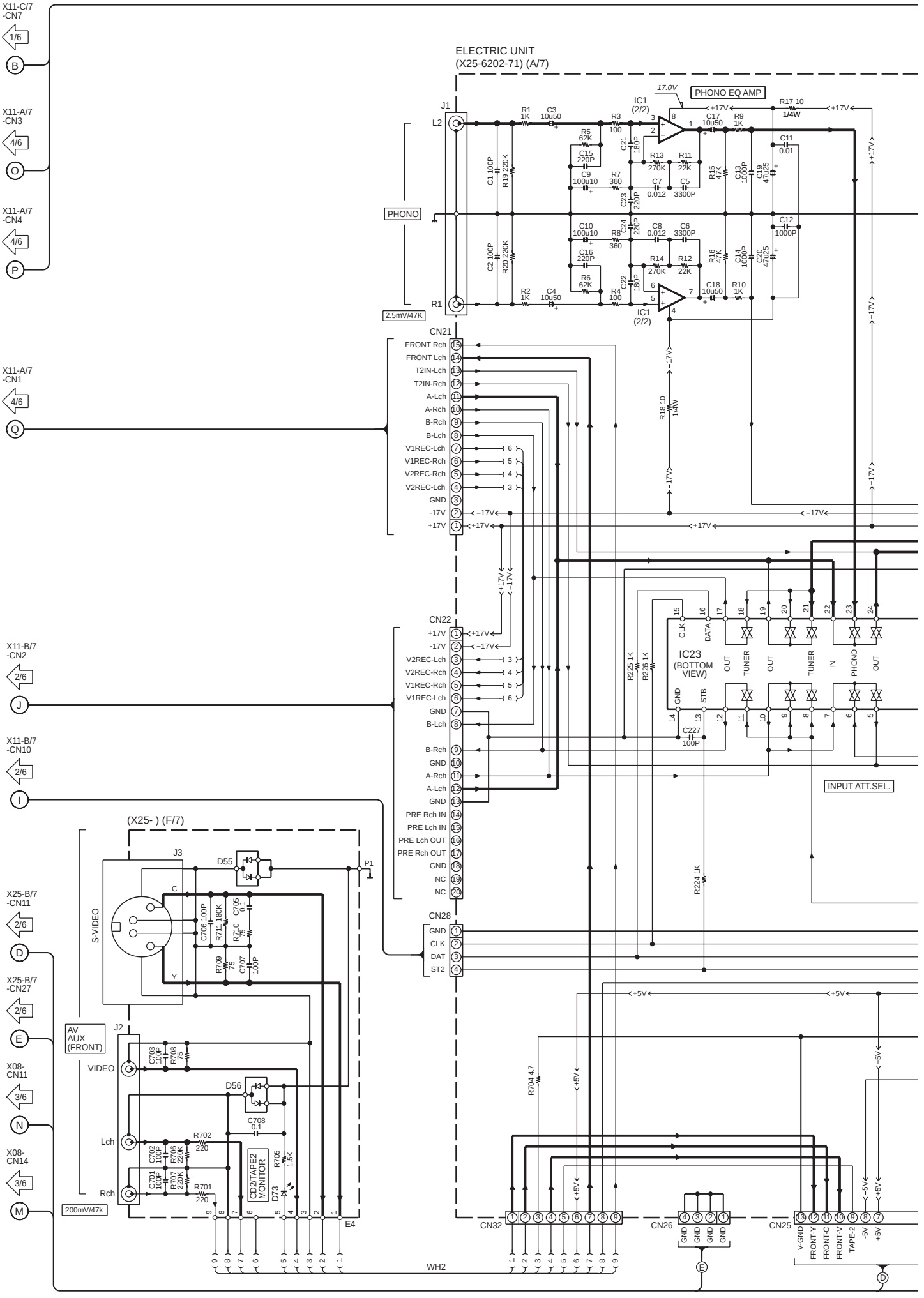


KRF-X9992D(E,T) (4/6)
KRF-X9992DE(E2) (4/6)

Y05-3892-70

KRF-X9992D/X9992DE

KENWOOD


ELECTRIC UNIT
(X25-6202-71) (A/7)
PHONO EQ AMP
IC1 (2/2)
PHONO
2.5mV/47K
CN21
CN22
CN28
IC23
(BOTTOM VIEW)
INPUT ATT.SEL.
(X25-) (F/7)
S-VIDEO
AV AUX (FRONT)
CD2/TAPE2 MONITOR
200mV/47k
CN32
CN26
CN25
WH2
X11-C/7 -CN7
X11-A/7 -CN3
X11-A/7 -CN4
X11-A/7 -CN1
X11-B/7 -CN2
X11-B/7 -CN10
X25-B/7 -CN11
X25-B/7 -CN27
X08- CN11
X08- CN14

(X25-6202-71) (A/7)

CN23 TON-ST VOL-ST VOL-CLK VOL-DAT DATA CLK SEL-ST1 D-GND MUTE

CN24 DRch GND DLch GND NC NC GND Rch GND Lch SRch SLch CEch GND +17V NC NC -17V

CN29 B-MUTE GND Lch IN GND Rch IN GND Lch OUT GND Rch OUT

Q451,454 POWER LIMITER

Q453,457 POWER LIMITER

W146

W115

BUFFER

INPUT ATT

DIRECT(R)

DIRECT(L)

5.6V AVR

-5.6V AVR

10V AVR

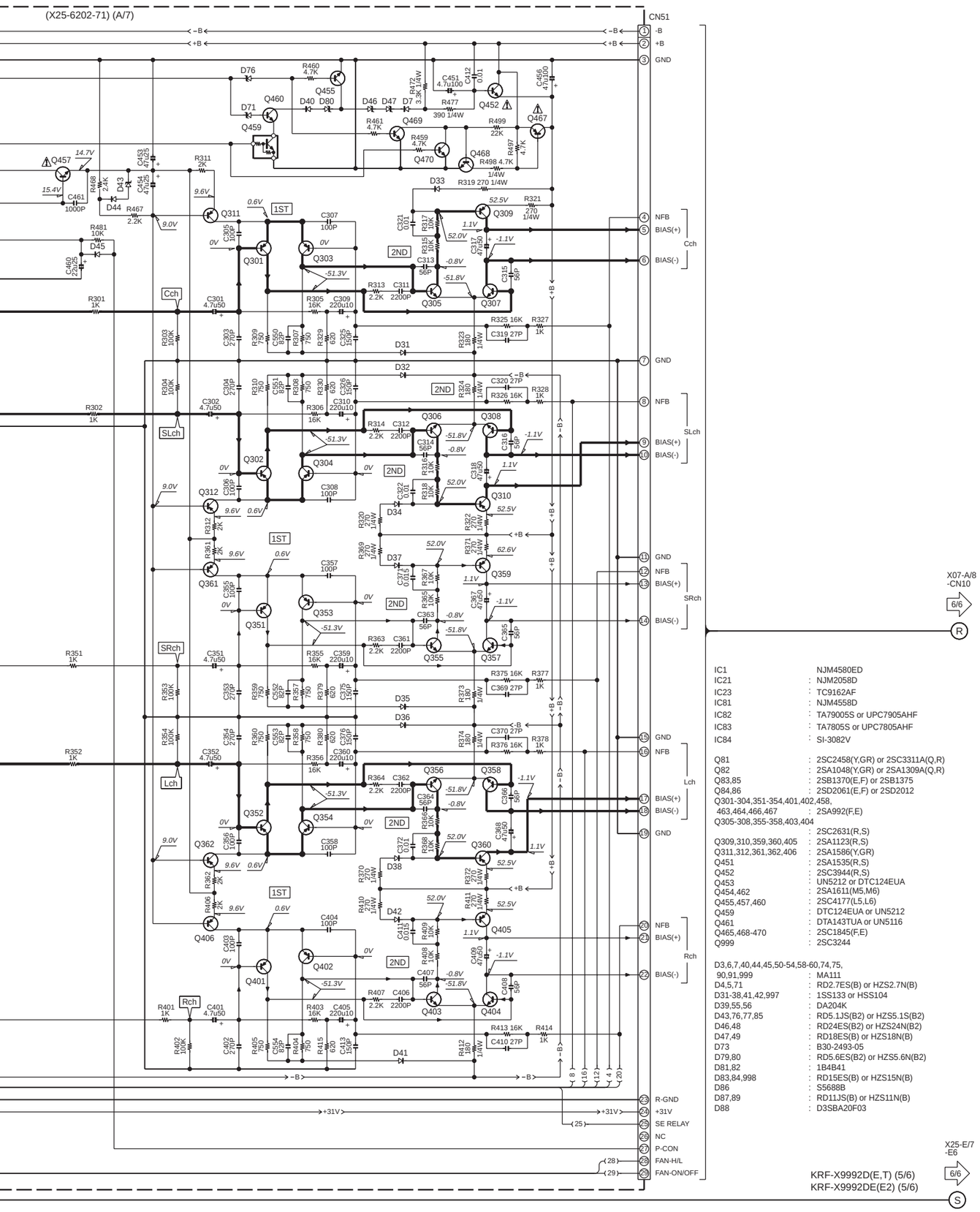
9V AVR

16V AVR

-10V AVR

WH6 (M)

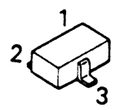
WH5 (N)



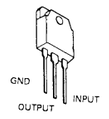
IC1	:	NJM4580ED
IC21	:	NJM2058D
IC23	:	TC9162AF
IC81	:	NJM4558D
IC82	:	TA79005S or UPC7905AHF
IC83	:	TA7805S or UPC7805AHF
IC84	:	SI-3082V
Q81	:	2SC2458(Y,GR) or 2SC3311A(Q,R)
Q82	:	2SA1048(Y,GR) or 2SA1309A(Q,R)
Q83,85	:	2SB1370(E,F) or 2SB1375
Q84,86	:	2SD2061(E,F) or 2SD2012
Q301-304,351-354,401,402,458, 463,464,466,467	:	2SA992(F,E)
Q305-308,355-358,403,404	:	2SC2631(R,S)
Q309,310,359,360,405	:	2SA1123(R,S)
Q311,312,361,362,406	:	2SA1586(Y,GR)
Q451	:	2SA1535(R,S)
Q452	:	2SC3944(R,S)
Q453	:	UN5212 or DTC124EUA
Q454,462	:	2SA1611(M5,M6)
Q455,457,460	:	2SC4177(L5,L6)
Q459	:	DTC124EUA or UN5212
Q461	:	DTA143TUA or UN5116
Q465,468-470	:	2SC1845(F,E)
Q999	:	2SC3244
D3,6,7,40,44,45,50-54,58-60,74,75, 90,91,999	:	MA111
D4,5,71	:	RD2.7ES(B) or HZS2.7N(B)
D31-38,41,42,997	:	1SS133 or HSS104
D39,55,56	:	DA204K
D43,76,77,85	:	RD5.1JS(B2) or HZS5.1S(B2)
D46,48	:	RD24ES(B2) or HZS24N(B2)
D47,49	:	RD18ES(B) or HZS18N(B)
D73	:	B30-2493-05
D79,80	:	RD5.6ES(B2) or HZS5.6N(B2)
D81,82	:	1B4B41
D83,84,998	:	RD15ES(B) or HZS15N(B)
D86	:	S5688B
D87,89	:	RD11JS(B) or HZS11N(B)
D88	:	D3SBA20F03

KRF-X9992D(E,T) (5/6)
KRF-X9992DE(E2) (5/6)

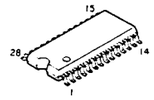
UN5212



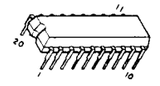
SI-3082V



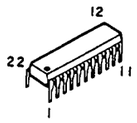
TC9162AF
TC9163AF
TC9164AF



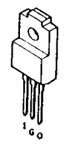
TC9412AP



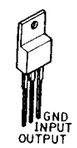
LC72131



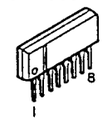
TA7805S



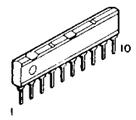
TA79005S



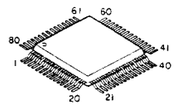
NJM4565L



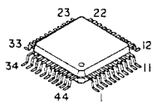
BA7645N



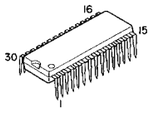
DSPB56007FJ88
KAG09



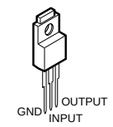
CS4226KQG



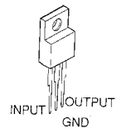
LA1837



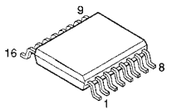
UPC7905AHF



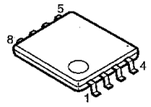
TA78057S



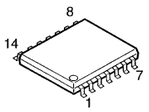
TC74VHC153FT
TDA7479D



TL431CPS



TC74VHCT74AFT
TC74VHCUO4FT
TC74VHC125FT
TC74VHC74FT



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The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

Y05-3892-70

KRF-X9992D/X9992DE

KENWOOD

EA | EB | EC | ED | EE | EF | EG | EH | EI | EJ

1 2 3 4 5 6 7

POWER AMPLIFIER UNIT
(X07-293X-XX) (A/6)

X25 -A/7 -E7 5/6

CN1 (10 9 8 7 6 5 4 3 2 1)
Cch SRch Rch SLch Lch
IDLE TEST PIN

Q11-14,51-54,101,102 CURRENT LIMIT
Q1-10 FINAL TR.

IDLE FLch: Q1 Q3 Q13
IDLE FRch: Q2 Q4 Q14
IDLE SLch BLSP: Q5 Q7 Q53
IDLE SRch BRSP: Q6 Q8 Q54
IDLE Cch: Q9 Q10 Q102

CN10 (30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1)
-VC +VC GND NFB BIAS+ BIAS- (Cch) (SLch) (SRch) (Lch) (Rch)
FAN +B
RELAY CONT. SECOND CS POWER
FAN CONT. FAST/SLOW ON/OFF

X25 -A/7 -CN51 5/6
X08-C/7 -CN15 3/6
X08-C/7 -CN13 3/6

J1 J2
Lch A SP. Rch FRONT SP. Lch B SP. Rch
Lch SURROUND SP. Rch CENTER SP.

A SP. ON/OFF D151 B SP. ON/OFF D152 SURROUND SP. ON/OFF D153 C SP. ON/OFF

P1 CN6 Lch GND Rch R41 470 2W R42 470 2W WH6

(X11-) (G/7) PHONES P2 J21
C402 220P C401 220P R556 10 R555 10

(X25-) (E/7) WH1 E6 T1
W2 W1

(X07-) (B/6)
WH16 YEL WH18 BLK WH17 WHT

(X07-) (C/6)
USED (E,E1) TYPE J11
USED (T) TYPE J11

WH6 E6
POWER FAST OFF +BR uCOM +B uCOM GND +BZ

PROTECTION D254 D163 Q163 Q164 Q161 Q162 Q203 D162 D161

(X07-) (E/6) TEMP. SW (105℃) TS1 105℃ WH11 E11 E13

CN7 COOLING FAN

(X07-) (F/6) TEMP. SW (65℃) TS2 65℃ WH12 E12 E14

FAN ON/OFF FAN HI/LO FAN DRIVE Q214 Q211 Q212 Q215 Q213
FAN HI:27.2V LO:13.3V
FAN ON:0V OFF:1.4V
FAN HI:14.2V,LO:0V
FAN HI:26.7V LO:12.7V OFF:0.3V
HI:0V

D251,252 CONNECT ON/OFF D251 C254 0.01 C255 0.01 C253 0.01

-35 AVR Q311 R310 1/4W

Q153 SUR.SP. ON/OFF DRIVE
Q152 B SP. ON/OFF DRIVE
Q151 A SP. ON/OFF DRIVE

Q201 TEMP. LEVEL DETECT D201
POWER ON:0V STAND BY:12.5V
POWER ON:0.7V STAND BY:0V
Q301 POWER ON/OFF DRIVE

E10 WH10
I PROT V PROT POWER TRANS TAP CS B A 10W 1W T SW FAST OFF uCOM+B uCOM GND -B FIL +BZ

DISPLAY UNIT
(X25-6202-71) (C/7)

ED1

P1 MUTE
P3 A B P2
P4 ST.
P5 TUNED

KRF-X9992DE (X07-2932-71)

DESTINATION		UNIT No.	F7	W187	CN25, 26	J11
COUNTRY	ABB.					
EUROPE	E1	2-71	YES	NO	YES	E03-0149-05

KRF-X9992D (X07-293X-XX)

DESTINATION		UNIT No.	F7	W187	CN25, 26	J11
COUNTRY	ABB.					
U.K.	T	0-51	NO	YES	NO	E03-0310-05
EUROPE	E	2-71	YES	NO	YES	E03-0149-05

IC61
DISPLAY u-COM
(BOTTOM VIEW)

IC31 : TA78057S

Q1,2,5,6,9 : TRAIT5N×5
Q3,4,7,8,10 : TRAIT5P×5
Q11,12,51,52,101 : 2SC2631(R,S)
Q13,14,53,54, 102,163,164 : 2SA992(F,E)
Q151-153,211,212 : UN4219 or DTC113ZSA
Q161,162 : 2SC1845(F,E)
Q201,202,302 : 2SC2458(Y,GR) or 2SC3311A(Q,R)
Q203,213,215 : UN4212 or DTC124ESA
Q214,303 : 2SD2012 or 2SD2061
Q301 : 2SC2003(L,K)
Q311 : 2SB1375 or 2SB1370

D5,6,56,57,103 : 1SS244
D7-12,55,58-62,104-106,151-153, 163,201,213,254,305-308, 316,317 : 1SS133 or HSS104A
D161,162 : RD4.7ES(B) or HZS4.7N(B)
D211 : RD13ES(B2) or HZS13N(B2)
D212 : RD15ES(B) or HZS15N(B)
D251 : RBV-1506LFA
D301-304,309, 311,315 : S5688B or 1SR139-400
D310 : RD16ES(B2) or HZS16N(B2)
D313,314 : RD18ES(B) or HZS18N(B)

IC61 : uPD780204-038

Q903 : 2SA1611(M5,M6)

D1 : MA111
D2 : U1BC44
D61 : RD3.3ES(B) or HZS3.3N(B)
D62 : RD2.7ES(B) or HZS2.7N(B)
D63-66,70 : B30-2493-05
D67,68 : B30-2430-05
D69 : B30-1010-05

A1 : W02-2571-05

SIGNAL LINE
GND LINE
+B LINE
−B LINE

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

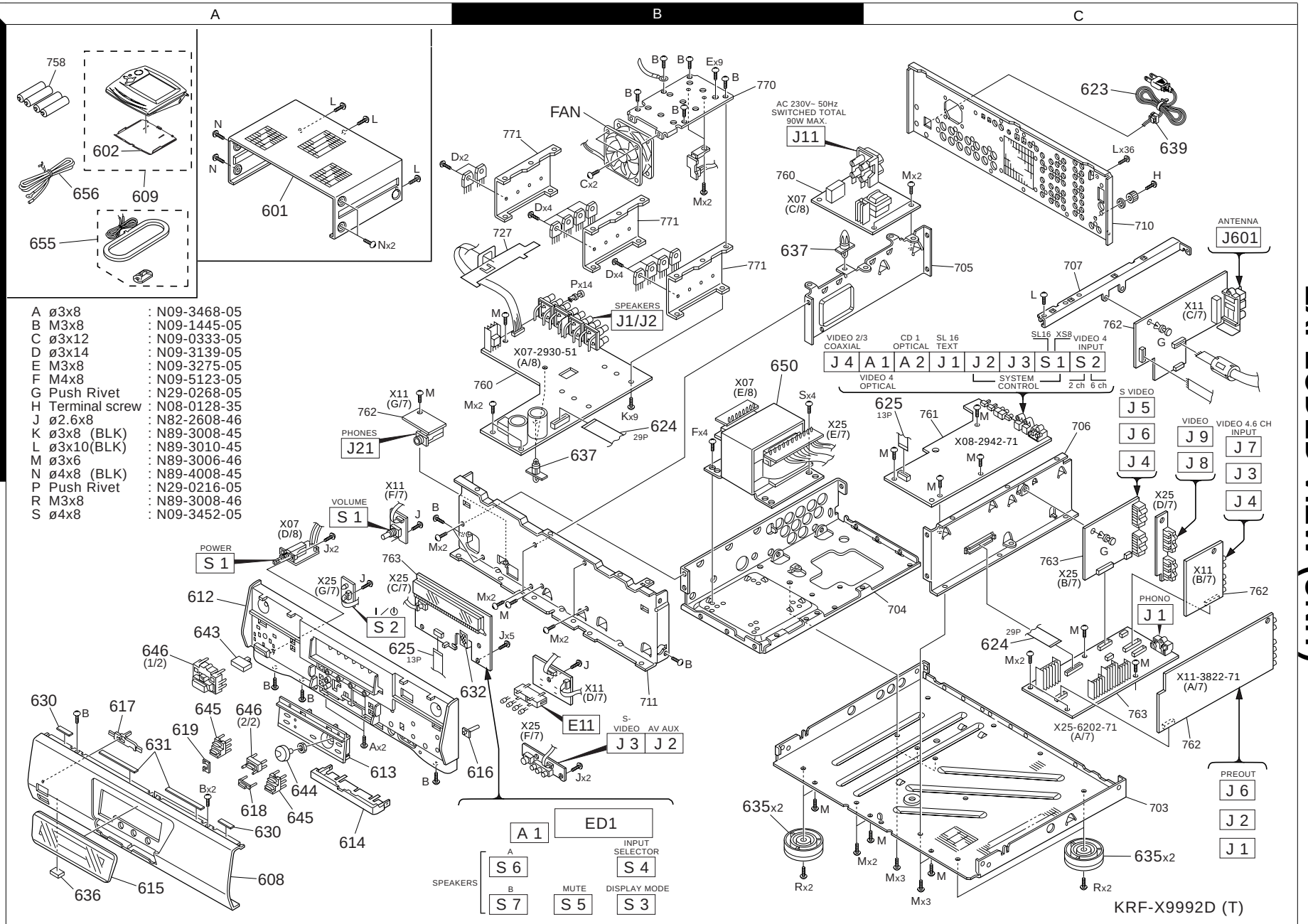
VRF-X9992D(E,T) (6/6)
VRF-X9992DE(E2) (6/6)

Y05-3892-70

KRF-X9992D/X9992DE

KENWOOD

EXPLODED VIEW (UNIT)



Parts with exploded numbers larger than 700 are not supplied.

✻ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

❶

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
KRF-X9992D/X9992DE E1: KRF-X9992DE						
601	1A		A01-3680-01	METALLIC CABINET		
602	1A	✻	A09-1130-08	BATTERY COVER		
608	2A	✻	A60-1649-12	PANEL		
609	1A	✻	A70-1290-05	REMOTE CONTROLLER ASSY(RC-R1007)		
612	2A		B01-0533-21	PANEL ESCUTCHEON		
613	2A		B07-2396-22	ESCUTCHEON		
614	2A		B10-2418-03	FRONT GLASS		
615	2A	✻	B10-3503-03	FRONT GLASS		
616	2B		B12-0303-24	INDICATOR		
617	2A		B12-0326-04	INDICATOR		
618	2A		B12-0331-04	INDICATOR		
619	2A		B12-0333-04	INDICATOR		
-			B46-0310-03	WARRANTY CARD		
-			B58-0945-03	CAUTION CARD	T1	
-			B58-0965-13	CAUTION CARD (PL)	T1	
-			B58-0966-13	CAUTION CARD (PL)	E	
-			B58-1607-03	CAUTION CARD	E1	
-		✻	B59-1438-00	SUB-INSTRUCTION MANUAL		
-		✻	B60-4326-00	INSTRUCTION MANUAL(EN)	T1E1	
-		✻	B60-4327-00	INSTRUCTION MANUAL(EN)	T1E1	
-		✻	B60-4328-00	INSTRUCTION MANUAL(FR)	E	
-		✻	B60-4329-00	INSTRUCTION MANUAL(FR)	E	
-		✻	B60-4330-00	INSTRUCTION MANUAL(GE)	E	
-		✻	B60-4331-00	INSTRUCTION MANUAL(GE)	E	
-		✻	B60-4332-00	INSTRUCTION MANUAL(NE)	E	
-		✻	B60-4333-00	INSTRUCTION MANUAL(NE)	E	
⚠ 623	1C		E30-2579-05	AC POWER CORD	EE1	
⚠ 623	1C		E30-2718-05	AC POWER CORD	T1	
624	1B,2C		E35-2056-05	FLAT CABLE 29P		
625	2A,1C		E35-2057-05	FLAT CABLE 13P		
630	2A		G11-0155-14	SOFT TAPE (40X9X2)		
631	2A		G11-0185-04	SOFT TAPE (120X5X2)		
632	2B		G11-2405-04	SOFT TAPE		
-		✻	G11-2489-04	CUSHION		
-		✻	G13-0597-04	CUSHION		
-			H10-7416-22	POLYSTYRENE FOAMED FIXTURE		
-			H10-7417-32	POLYSTYRENE FOAMED FIXTURE		
-			H11-0094-04	POLYSTYRENE FOAMED BOARD		
-		✻	H13-0311-14	CARTON BOARD		
-		✻	H21-0374-04	PROTECTION SHEET		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	EE1	
-			H25-0651-04	PROTECTION BAG	T1	
-		✻	H50-3286-04	ITEM CARTON CASE	ET1	
-		✻	H50-3336-04	ITEM CARTON CASE	E1	
635	2B,2C		J02-1404-13	FOOT (D=46,H=18.5,T)		
636	2A		J30-0480-04	SPACER		
⚠ 637	1B		J19-5910-05	UNIT HOLDER		
639	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0098-05	WIRE BAND		
643	2A		K27-2248-04	KNOB (BUTTON) POWER		
644	2A		K29-6852-04	KNOB VOLUME		
645	2A		K29-6855-03	KNOB TACT		

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Y : AAFES(Europe) **X :** Australia **Q :** Russia **H :** Korea **M :** Other Areas ⚠ indicates safety critical components.

✻ New Parts
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Teile ohne **Parts No.** werden nicht geliefert.

❷

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
646	2A		K29-6858-12	KNOB POWER		
650	1B		L07-2461-05	POWER TRANSFORMER		
-			L92-0070-05	FERRITE CORE		
655	1A		T90-0833-05	LOOP ANTENNA		
656	1A		T90-0841-05	LEAD WIRE ANTENNA		

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PARTS LIST

(Refer to page 4)

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❸

POWER(X07-2932-71)

Ref. No	New Parts	Parts No.	Desti-nation
C5 -8		CF92FV1H334J	
C11 ,12		CQ93FMG1H472J	
C13 ,14		CK45FF1H103ZMU	
C15 -22		CE04KW2A2R2M	
C23 ,24		CQ93FMG1H472J	
C55 -58		CF92FV1H334J	
C61 ,62		CQ93FMG1H472J	
C63 ,64		CK45FF1H103ZMU	
C103,104		CF92FV1H334J	
C106		CQ93FMG1H472J	
C107		CK45FF1H103ZMU	
C108-111		CE04KW2A2R2M	
C161		CE04KW1A101M	
C162		CE04KW1H100M	
C201		CE04KW1E470M	
C211		CE04KW1H3R3M	
C212		CE04KW1V220M	
C213		CE04KW1V470M	
C251,252		C90-3750-05	
C253-255		CK45FE2H103PMM	
⚠ C281		C91-1488-05	
⚠ C282		C91-1444-05	
C301		CK45FF1H103ZMU	
C302		CE04KW1E102M	
C303		CE04KW1H2R2M	
C305,306		CF92FV1H104J	
C307		CE04KW1A470M	
C308		CE04KW1H220M	
C309		CE04KW1E470M	
C311		CE04KW2A470M	
C312,313		CE04KW1H100M	
CN1		E40-4879-05	
CN6		E40-4293-05	
CN7		E40-3247-05	
CN10		E40-4916-05	
CN11		E40-4296-05	
J1		E70-0095-05	
J2		E70-0096-05	
⚠ J11		E03-0149-05	EE1
⚠ J11		E03-0310-05	T1
P1		E29-1625-04	
⚠ F5		F05-6321-05	
⚠ F7		F05-2525-05	EE1
FAN		F09-0139-05	
CN21,22		J13-0075-05	
CN21,22		J13-0092-05	
CN25,26		J13-0075-05	EE1
CN25,26		J13-0092-05	EE1
E21		J11-0808-05	
E22 ,23		J11-0831-05	
⚠ T1		L07-2322-05	
R1 -4		RD14NB2E470J	
R5 ,6		RD14NB2E151J	
R9 ,10		RS14KB3A2R7J	
R11 -14		RD14NB2E332J	
R27 -30		RD14NB2E101J	
R41 ,42		RS14KB3D471J	
R51 -54		RD14NB2E470J	
R55 ,56		RD14NB2E151J	
R59 ,60		RS14KB3A2R7J	
R61 -64		RD14NB2E332J	
R77 -80		RD14NB2E101J	
R101,102		RD14NB2E470J	
R103		RD14NB2E151J	
R105		RS14KB3A2R7J	
R106,107		RD14NB2E332J	
R114,115		RD14NB2E101J	
⚠ R151,152		RD14NB2E271J	
⚠ R153		RS14KB3A121J	
R214,215		RD14NB2E102J	
⚠ R253,254		RD14NB2E3R9J	
R305		RD14NB2E332J	

Ref. No	New Parts	Parts No.	Desti-nation
⚠ R310		RD14NB2E1R0J	
R311		RD14NB2E682J	
VR1 -5		R32-0030-05	
K1 -4		S76-0076-05	
⚠ K6		S76-0077-05	
⚠ S1		S40-1103-05	
⚠ TS1		H16.7.5	
⚠ TS2		S79-0028-05	
D5 ,6		1SS244	
D7 -12		HSS104A	
D7 -12		1SS133	
D55		HSS104A	
D55		1SS133	
D56 ,57		1SS244	
D58 -62		HSS104A	
D58 -62		1SS133	
D103		1SS244	
D104-106		HSS104A	
D104-106		1SS133	
D151-153		HSS104A	
D151-153		1SS133	
D161,162		HZS4.7N(B)	
D161,162		RD4.7ES(B)	
D163		HSS104A	
D163		1SS133	
D201		HSS104A	
D201		1SS133	
D211		HZS13N(B2)	
D211		RD13ES(B2)	
D212		HZS15N(B)	
D212		RD15ES(B)	
D213		HSS104A	
D213		1SS133	
⚠ D251		RBV-1506LFA	
D254		HSS104A	
D254		1SS133	
⚠ D301-304		S5688B	
⚠ D301-304		1SR139-400	
⚠ D305-308		HSS104A	
⚠ D305-308		1SS133	
⚠ D309		S5688B	
⚠ D309		1SR139-400	
D310		HZS16N(B2)	
D310		RD16ES(B2)	
⚠ D311		S5688B	
⚠ D311		1SR139-400	
D313,314		HZS18N(B)	
D313,314		RD18ES(B)	
⚠ D315		S5688B	
⚠ D315		1SR139-400	
D316,317		HSS104A	
D316,317		1SS133	
⚠ IC31		TA78057S	
⚠ Q1 ,2		TRAIT5N*5	
⚠ Q3 ,4		TRAIT5P*5	
⚠ Q5 ,6		TRAIT5N*5	
⚠ Q7 ,8		TRAIT5P*5	
⚠ Q9		TRAIT5N*5	
⚠ Q10		TRAIT5P*5	
Q11 ,12		2SC2631(R,S)	
Q13 ,14		2SA992(F,E)	
Q51 ,52		2SC2631(R,S)	
Q53 ,54		2SA992(F,E)	
Q101		2SC2631(R,S)	
Q102		2SA992(F,E)	
Q151-153		DTC113ZSA	
Q151-153		UN4219	
Q161,162		2SC1845(F,E)	
Q163,164		2SA992(F,E)	
Q201,202		2SC2458(Y,GR)	
Q201,202		2SC3311A(Q,R)	
Q203		DTC124ESA	
Q203		UN4212	
Q211,212		DTC113ZSA	
Q211,212		UN4219	
Q213		DTC124ESA	
Q213		UN4212	

Ref. No	New Parts	Parts No.	Desti-nation
⚠ Q214		2SD2012	
⚠ Q214		2SD2061	
Q215		DTC124ESA	
Q215		UN4212	
Q301		2SC2003(L,K)	
⚠ Q302		2SC2458(Y,GR)	
⚠ Q302		2SC3311A(Q,R)	
⚠ Q303		2SD2012	
⚠ Q303		2SD2061	
⚠ Q311		2SB1370	
⚠ Q311		2SB1375	

SURROUND(X08-2942-71)

Ref. No	New Parts	Parts No.	Desti-nation
C2 ,3		CC73FSL1H470J	
C4 -7		CC73FSL1H101J	
C11		CC73FSL1H100D	
C12		CE04KW1H2R2M	
C13 ,14		CC73FSL1H101J	
C15		CC73FSL1H331J	
C16		CC73FSL1H100D	
C18 ,19		CK73FB1E104K	
C20		CK73FB1H103K	
C21		CE04KW1A101M	
C22		CE04KW1H010M	
C23		CK73FB1H102K	
C24		CK73FB1E104K	
C25		C90-1826-05	
C26		CK73FF1C105Z	
C27		CE04KW1A101M	
C28		CK73FB1H103K	
C29		CK73FB1E104K	
C30 ,31		CK73FB1H103K	
C32		CE04KW1H100M	
C33		CK73FB1E104K	
C34		CE04KW1H100M	
C35 ,36		CK73FB1E104K	
C37		CE04KW1H100M	
C38 ,39		CK73FB1E104K	
C40		CC73FSL1H102J	
C41		CK73FB1E104K	
C42		CE04KW1A470M	
C61		CK73FB1E104K	
C63 -66		CK73FB1E104K	
C68		CK73FB1H822K	
C70 ,71		CK73FB1H102K	
C73 -75		CC73FSL1H470J	
C76		CK73FB1H102K	
C78 -80		CC73FSL1H101J	
C81		CC73FSL1H470J	
C82		CC73FSL1H102J	
C83		CE04KW1E470M	
C84		CK73FB1E104K	
C85 ,86		CC73FSL1H470J	
C88		CE04KW1A101M	
C89		CK73FB1E104K	
C90		CC73FSL1H470J	
C91		CK73FB1E104K	
C92		CE04KW1A101M	
C93		CC73FSL1H470J	
C94		CK73FB1E104K	
C95		CE04KW1A101M	
C96 ,97		CC73FSL1H101J	
C98 ,99		CC73FSL1H102J	
C100-102		CC73FSL1H470J	
C103		CK73FB1E104K	
C104		CC73FSL1H470J	
C106		CK73FB1E104K	
C107		CK73FB1H223K	
C108		CK73FB1C224K	
C109		CK73FB1E104K	
C110		CE04KW1H010M	
C116		CK73FB1H102K	
C117,118		CK73FB1E104K	
C119		CK73FB1H102K	
C121		CK73FB1E104K	
C125-127		CC73FSL1H101J	
C128		CC73FSL1H470J	

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PARTS LIST

(Refer to page 4)

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Teile ohne **Parts No.** werden nicht geliefert.

❹

Ref. No	New Parts	Parts No.	Destination
C129		CC73FSL1H101J	
C130		CK73FB1E104K	
C131		CC73FSL1H102J	
C133,134		CC73FSL1H101J	
C136		CC73FSL1H220J	
C137		CC73FSL1H470J	
C138		CC73FSL1H101J	
C139,140		CK73FB1E104K	
C142		CE04KW1A101M	
C143,144		CK73FB1E104K	
C145-147		CE04KW1A101M	
C148-151		CK73FB1E104K	
C152,153		CE04KW1A101M	
C154		CK73FB1H103K	
C155,156		CK73FB1E104K	
C157		CE04KW1E221M	
C158		C92-0646-05	
C159		C93-0039-05	
C160		C92-0646-05	
C161		C93-0039-05	
C162		C93-0038-05	
C163		C92-0654-05	
C164		C93-0038-05	
C165		C92-0654-05	
C166,167		CK73FB1E104K	
C168		CE04KW1A470M	
C169-171		CE04KW1H100M	
C172		CC73FSL1H470J	
C173		CC73FSL1H101J	
C174		CK73FB1E104K	
C175		CK73FB1H102K	
C176-179		CK73FB1E104K	
C180		CC73FSL1H471J	
C183		CK73FB1E104K	
C186,187		CC73FSL1H221J	
C188		CC73FSL1H101J	
C189		CK73FB1H103K	
C190,191		CC73FSL1H220J	
C192,193		CE04KW1H4R7M	
C194,195		CK73FB1E104K	
C199-202		CC73FSL1H220J	
C205,206		CC73FSL1H681J	
C207,208		CC73FSL1H151J	
C209,210		CC73FSL1H182J	
C211		CK73FB1H103K	
C212		CC73FSL1H101J	
C213,214		CE04KW1H220M	
C215,216		CC73FSL1H101J	
C217,218		CE04KW1H220M	
C219,220		CC73FSL1H151J	
C225,226		CK73FB1E104K	
C230		CK73FB1E104K	
C231		CC73FSL1H681J	
C232		CK73FB1H222K	
C233		CC73FSL1H151J	
C234		CK73FB1H103K	
C235		CK73FB1H222K	
C236		CK73FB1H223K	
C237		CK73FB1H103K	
C238		CC73FSL1H101J	
C239,240		CE04KW1H4R7M	
C241,242		CC73FSL1H101J	
C243,244		CE04KW1H4R7M	
C245		CK73FB1H122K	
C246		CK73FB1H222K	
C247		CK73FB1E104K	
C249		CK73FB1H102K	
C250		CK73FB1E104K	
C257,258		CC73FSL1H681J	
C259,260		CC73FSL1H151J	
C261,262		CK73FB1H222K	
C263		CK73FB1H103K	
C264		CC73FSL1H101J	
C265,266		CE04KW1H4R7M	
C267,268		CC73FSL1H101J	
C269,270		CE04KW1H4R7M	
C271,272		CK73FB1H122K	

Ref. No	New Parts	Parts No.	Destination
C273-276		CC73FSL1H101J	
C277,278		CC73FSL1H470J	
C279,280		CK73FB1H102K	
C281,282		CK73FB1E104K	
C283		CC73FSL1H101J	
C284,285		CC73FSL1H470J	
C286		CE04KW1A101M	
CN11		E40-4607-05	
CN12		E40-4609-05	
CN13		E40-4900-05	
CN14,15		E40-4609-05	
CN17		E40-4295-05	
CN19		E40-4808-05	
J1		E11-0360-05	
J2 ,3		E11-0374-05	
J4		E63-1069-05	
P1		E29-1636-04	
L2 -6		L92-0081-05	
L7 -9		L92-0091-05	
L21 -23		L40-1011-39	
L26 ,27		L92-0091-05	
L28		L33-0578-05	
L29		L33-0577-05	
L30		L33-0578-05	
L31 -37		L92-0091-05	
L39		L92-0091-05	
L40 ,41		L40-1015-34	
L43		L92-0091-05	
X1		L77-2002-05	
X2		L78-0267-05	
X3		L78-0674-05	
X4		L78-0271-05	
R1 -27		RK73FB2A101J	
R33		RK73FB2A103J	
R39 ,40		RK73FB2A331J	
R41 ,42		RK73FB2A101J	
R48		RK73FB2A473J	
R49		RK73FB2A101J	
R50 -53		RK73FB2A104J	
R54 -61		RK73FB2A473J	
R62		RK73FB2A101J	
R63		RK73FB2A104J	
R65		RK73FB2A473J	
R66 -68		RK73FB2A101J	
R69 -73		RK73FB2A473J	
R74		RK73FB2A821J	
R75		RK73FB2A103J	
R76		RK73FB2A104J	
R77		RK73FB2A103J	
R78		RK73FB2A102J	
R79		RK73FB2A103J	
R80 ,81		RK73FB2A102J	
R82 -98		RK73FB2A473J	
R99 ,100		RK73FB2A103J	
R101-106		RK73FB2A473J	
R108-117		RK73FB2A101J	
R118,119		RK73FB2A473J	
R121		RK73FB2A393J	
R123		RK73FB2A563J	
R124-134		RK73FB2A473J	
R135		RK73FB2A393J	
R137		RK73FB2A393J	
R139-141		RK73FB2A473J	
R142		RK73FB2A103J	
R143-155		RK73FB2A473J	
R156,157		RK73FB2A101J	
R158-165		RK73FB2A473J	
R166-169		RK73FB2A101J	
R170-177		RK73FB2A473J	
R178		RK73FB2A101J	
R179-186		RK73FB2A473J	
R187		RK73FB2A563J	
R188,189		RK73FB2A473J	
R190		RK73FB2A101J	
R191-193		RK73FB2A473J	

Ref. No	New Parts	Parts No.	Destination
R195		RK73FB2A473J	
R196-203		RK73FB2A101J	
R204		RK73FB2A393J	
R206-216		RK73FB2A473J	
R217-221		RK73FB2A101J	
R226,227		RK73FB2A473J	
R228-232		RK73FB2A101J	
R233		RK73FB2A473J	
R234-236		RK73FB2A101J	
R238		RK73FB2A103J	
R239-243		RK73FB2A473J	
R244		RD14NB2E150J	
R245,246		RK73FB2A102J	
R300		RK73FB2A101J	
R301		RK73FB2A473J	
R302		RK73FB2A101J	
R303		RK73FB2A103J	
R304		RK73FB2A471J	
R305,306		RK73FB2A473J	
R307-309		RK73FB2A561J	
R310		RK73FB2A101J	
R311		RK73FB2A102J	
R312-314		RK73FB2A561J	
R315		RK73FB2A271J	
R316		RK73FB2A561J	
R317		RK73FB2A473J	
R318		RK73FB2A102J	
R319-321		RK73FB2A101J	
R322,323		RK73FB2A750J	
R324		RK73FB2A473J	
R325		RK73FB2A472J	
R326,327		RK73FB2A101J	
R328		RK73FB2A473J	
R329		RK73FB2A472J	
R330		RK73FB2A302J	
R333		RK73FB2A561J	
R334		RK73FB2A271J	
R335-343		RK73FB2A473J	
R345-347		RK73FB2A473J	
R348-355		RK73FB2A103J	
R356		RK73FB2A101J	
R357		RK73FB2A271J	
R358		RK73FB2A561J	
R359		RK73FB2A391J	
R360		RK73FB2A101J	
R361		RK73FB2A561J	
R362		RK73FB2A103J	
R363,364		RK73FB2A561J	
R365,366		RK73FB2A470J	
R367		RK73FB2A103J	
R368		RK73FB2A391J	
R369		RK73FB2A561J	
R370		RK73FB2A393J	
R371		RD14NB2E2R7J	
R372		RD14NB2E5R6J	
R373,374		RK73FB2A393J	
R375		RD14NB2E100J	
R376,377		RK73FB2A102J	
R378		RK73FB2A222J	
R379		RK73FB2A103J	
R380,381		RK73FB2A102J	
R382		RK73FB2A103J	
R383		RK73FB2A102J	
R384		RK73FB2A103J	
R385		RK73FB2A392J	
R386		RK73FB2A122J	
R387		RK73FB2A683J	
R388		RK73FB2A101J	
R389-391		RK73FB2A473J	
R392		RK73FB2A561J	
R393-396		RK73FB2A473J	
R398		RK73FB2A473J	
R399		RK73FB2A223J	
R400,401		RK73FB2A331J	
R402,403		RK73FB2A471J	
R404,405		RK73FB2A473J	
R406-409		RK73FB2A103J	

L : Scandinavia **K :** USA **P :** Canada **R :** Mexico **C :** China **I :** Malaysia
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⚠ indicates safety critical components.

PARTS LIST

(Refer to page 4)

✻ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No	New Parts	Parts No.	Destination
R410-417		RK73FB2A473J	
R420-425		RK73FB2A682J	
R426,427		RK73FB2A104J	
R428,429		RK73FB2A242J	
R430,431		RK73FB2A392J	
R432,433		RK73FB2A102J	
R438,439		RK73FB2A561J	
R440,441		RK73FB2A183J	
R442-449		RK73FB2A473J	
R450		RK73FB2A223J	
R452		RK73FB2A472J	
R453		RK73FB2A622J	
R454		RK73FB2A472J	
R455-457		RK73FB2A103J	
R458,459		RK73FB2A104J	
R460,461		RK73FB2A242J	
R462,463		RK73FB2A131J	
R464,465		RK73FB2A102J	
R466,467		RK73FB2A104J	
R468		RK73FB2A222J	
R469		RK73FB2A362J	
R470,471		RK73FB2A561J	
R472		RK73FB2A912J	
R473		RK73FB2A682J	
R474,475		RK73FB2A622J	
R476-479		RK73FB2A103J	
R480,481		RK73FB2A104J	
R482,483		RK73FB2A242J	
R484,485		RK73FB2A131J	
R486,487		RK73FB2A102J	
R488,489		RK73FB2A104J	
R490,491		RK73FB2A362J	
R492,493		RK73FB2A561J	
R494,495		RK73FB2A682J	
R500-503		RK73FB2A101J	
R504-507		RK73FB2A473J	
R508		RK73FB2A101J	
R509		RK73FB2A473J	
R510		RK73FB2A102J	
R511		RK73FB2A101J	
R521-544		RK73FB2A103J	
R545		RK73FB2A101J	
R546,547		RK73FB2A103J	
R551,552		RK73FB2A102J	
R553		RK73FB2A222J	
R554-556		RK73FB2A102J	
R558,559		RK73FB2A103J	
R560		RK73FB2A102J	
R561,562		RK73FB2A391J	
R563,564		RK73FB2A102J	
R565,566		RK73FB2A101J	
R567		RK73FB2A102J	
R568		RK73FB2A103J	
R572		RK73FB2A1R0J	
R573		RK73FB2A1R5J	
W1		R92-0670-05	
S1 ,2		S62-0034-05	
D1 ,2		DA204U	
D7 ,8		MA111	
D9		DAN202U	
D10		DAP202U	
⚠ D11 ,12		U1BC44	
D13		MA111	
D14		DA204U	
D15 ,16		DAP202U	
D17		DA204U	
D18		DAN202U	
D31 ,32		DA204U	
⚠ D33		D2FS4	
D34 ,35		UDZ18B	
IC1		TDA7479D	
IC2		S-806D-Z	
IC3		UPD78078GF-086	
IC4		UPD17215GT-737	
IC5		UPD78056GC-A23	
⚠ IC6		TA7805S	

Ref. No	New Parts	Parts No.	Destination
IC21		LH64256CK-70	
IC22		DSPB56007FJ88	
IC23		TC7W04FU	
IC24		TC74VHCT74AFT	
IC25		CS4226KQG	
IC26		TC74VHC153FT	
IC27		TC74VHCU04FT	
IC28		KAG09	
IC29		MX27L2000MC-20	
IC30		CS492501-CLB	
IC31		TC74VHC125FT	
IC32		TC74VHC74FT	
⚠ IC33-35		LM2940CT-5.0	
IC36		TL431CPS	
⚠ IC37		LM2574M-3.3	
IC38		TL431CPS	
IC48-55		NJM4565M	
Q8 ,9		UN5212	
Q10		2SC4081(R,S)	
Q11		UN5119	
⚠ Q31		2SB1424(Q,R)	
Q32		2SA1576A(R,S)	
Q33		2SC4081(R,S)	
Q34		UN5119	
Q45 -50		2SC4213(B)	
Q51 ,52		2SC4081(R,S)	
A1 ,2		W02-1181-05	
A3		W02-1114-15	
A4		W02-2671-05	
D21 -24		B30-2532-05	

CONTROL (X11-3822-71)

C1 -10		CC73FSL1H221J	
C11 ,12		CC73FSL1H101J	
C13		CK73FB1H103K	
C14		CC73FSL1H151J	
C15		CK73FB1H103K	
C16		CC73FSL1H151J	
C17		CK73FB1H103K	
C18		CC73FSL1H151J	
C21 ,22		CE04KW1H4R7M	
C23 ,24		CC73FSL1H470J	
C25 ,26		CE04KW1E470M	
C27 ,28		CC73FSL1H101J	
C29 ,30		CE04KW1A101M	
C31 -36		CC73FSL1H221J	
C37 -40		CE04KW1A101M	
C41 -52		CC73FSL1H221J	
C53		CC73FSL1H101J	
C54		CK73FB1H103K	
C55		CC73FSL1H151J	
C86		CK73FB1C104K	
C91 ,92		CK73FB1H103K	
C103,104		CE04KW1H2R2M	
C105,106		CK73FB1E104K	
C107		CC73FSL1H151J	
C108		CK45FF1H103Z	
C109,110		CC73FCH1H220J	
C111,112		CE04KW2A4R7M	
C115,116		CK73FB1H561K	
C117,118		CE04KW1H100M	
C119		CC73FSL1H101J	
C121,122		CC73FSL1H221J	
C123-126		CC73FSL1H101J	
C127,128		CK73FB1E104K	
C131,132		CE04KW1H2R2M	
C133,134		CC73FSL1H820J	
C135,136		CE04KW1V470M	
C137,138		CE04KW1H2R2M	
C139,140		CC73FSL1H820J	
C141,142		CE04KW1V470M	
C143,144		CE04KW1H2R2M	
C145,146		CC73FSL1H820J	
C147,148		CE04KW1V470M	
C153,154		CE04KW1H2R2M	
C155		CC73FSL1H151J	

Ref. No	New Parts	Parts No.	Destination
C156		CK45FF1H103Z	
C157,158		CC73FCH1H220J	
C159,160		CE04KW1H4R7M	
C163		CC73FSL1H101J	
C165,166		CC73FSL1H221J	
C167-170		CC73FSL1H101J	
C171,172		CE04KW1H100M	
C203,204		CE04KW1H2R2M	
C205		CC73FSL1H151J	
C206		CK45FF1H103Z	
C207,208		CC73FCH1H220J	
C209,210		CE04KW1H4R7M	
C211,212		CE04KW1H100M	
C213		CC73FSL1H101J	
C215		CC73FSL1H221J	
C216		CK73FB1E563K	
C217-220		CC73FSL1H101J	
C221-224		CE04KW1H2R2M	
C225-230		CC73FSL1H221J	
C231,232		CC73FSL1H101J	
C233,234		CC73FSL1H221J	
C235,236		CC73FSL1H101J	
C237		CK73FB1H103K	
C238,239		CC73FSL1H151J	
C240		CC73FSL1H101J	
C241		CK73FB1H103K	
C242		CC73FSL1H151J	
C285,286		C90-3239-05	
C301,302		CK73FB1E683KTA	
C303,304		CK73FB1H153K	
C305,306		CK73FB1H562K	
C307,308		CK73FB1H183K	
C309,310		CK73FB1H821K	
C314		CK45FF1H103Z	
C315,316		CC73FCH1H270J	
C317,318		CE04KW1H010M	
C319,320		CK73FB1H561K	
C321,322		CE04KW1H010M	
C325		CK73FB1H103K	
C326		CC73FSL1H151J	
C339,340		CC73FSL1H101J	
C341,342		CE04KW1H100M	
C345		CE04KW1H100M	
C347		CE04KW1H100M	
C348		CE04KW1H3R3M	
C349		CE04KW1H100M	
C350		CE04KW1H0R1M	
C353		CK45FF1H103Z	
C354		CC73FSL1H151J	
C355,356		CE04KW1H100M	
C359,360		CE04KW1H100M	
C361		CK45FF1H103Z	
C362		CC73FSL1H151J	
C363,364		CE04KW1H100M	
C367,368		CE04KW1H100M	
C371		CK45FF1H103Z	
C372		CC73FSL1H151J	
C373,374		CE04KW1H100M	
C377		CE04KW1H100M	
C378		CE04KW1C101M	
C379,380		CC73FSL1H220J	
C383,384		CC73FSL1H101J	
C385,386		CC73FSL1H220J	
C389,390		CC73FSL1H101J	
C391,392		CC73FSL1H220J	
C395		CC73FSL1H101J	
C401,402		CC45FSL1H221JN	
C501-506		CK73FB1C104K	
C509,510		CK73FB1E333KTA	
C511-514		CK73FB1C104K	
C515,516		CK73FB1E333KTA	
C521,522		CK73FB1H103K	
C523,524		CC73FSL1H151J	
C531,532		CE04KW1C470M	
C533,534		CC73FSL1H101J	
C541		CK73FB1H103K	
C542		CC73FSL1H151J	

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PARTS LIST

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Ref. No	New Parts	Parts No.	Destination
C601		CK73FB1H223K	
C602,603		CK73FB1H103K	
C605,606		CK73FB1H103K	
C607		CE04KW1C470M	
C610		CE04KW1C470M	
C611,612		CK73FB1H473K	
C614		CE04KW1C100M	
C615		CE04KW1H010M	
C616		C90-3251-05	
C617		C90-3253-05	
C618		CC73FCH1H470J	
C619		C90-3219-05	
C620		CK73FB1H473K	
C621		C90-3241-05	
C622		CK73FB1H473K	
C623		CE04KW1C100M	
C624		CC73FCH1H221J	
C625		CC73FCH1H181J	
C626		CK73FB1H223K	
C627		CE04HW1E100M	
C628,629		C90-3240-05	
C630,631		CK73FB1H223K	
C632		CE04KW1C100M	
C636		CK73FB1H103K	
C637,638		C90-3217-05	
C640		CC73FCH1H020C	
C641		CC73FCH1H470J	
C642		CC73FCH1H270J	
C643		CC73FCH1H220J	
C644		CC73FSL1H471J	
C645		CC73FCH1H220J	
C646		CE04KW1C100M	
C647		CK73FB1H102K	
C648		CE04KW1C470M	
C649		CE04KW1H4R7M	
C650		CC73FSL1H101J	
C651		CC73FCH1H471J	
C652		CC73FSL1H101J	
C670,671		CK73FB1H822K	
C672		CE04KW1H010M	
C673		CE04KW1C470M	
C675		CC73FCH1H040C	
C676		CC73FCH1H470J	
C678		CK73FB1H223K	
C681		CK73FF1C105Z	
C682		CK73FB1H103K	
C684,685		CK73FB1H223K	
C686		CK73FB1H471K	
C688		CC45FSL1H151JN	
C690		CK73FB1H102K	
C691,692		CC73FSL1H220J	
CN1		E40-9831-05	
CN2		E40-9836-05	
CN3		E40-9825-05	
CN4		E40-9834-05	
CN5		E40-4609-05	
CN7		E40-9825-05	
CN10		E40-9820-05	
CN11		E40-4609-05	
CN12		E40-4871-05	
J1		E63-1055-05	
J2		E63-1054-05	
J3 ,4		E63-1055-05	
J6		E63-1056-05	
J7		E63-1070-05	
J21		E11-0271-05	
J601		E70-0052-05	
E23 ,24		J11-0808-05	
CF601,602		L72-0536-05	
L601		L39-1366-05	
L602		L40-1091-17	
L603		L30-0911-05	
L604		L30-0950-05	
L605		L30-0951-05	
L606,607		L79-1239-05	

Ref. No	New Parts	Parts No.	Destination
L609		L40-1001-17	
L610,611		L40-2291-17	
X601		L77-2159-05	
R1 ,2		RK73FB2A221J	
R3 ,4		RK73FB2A224J	
R5 ,6		RK73FB2A102J	
R7 ,8		RK73FB2A224J	
R9 ,10		RK73FB2A221J	
R11 ,12		RK73FB2A224J	
R13 ,14		RK73FB2A102J	
R15 ,16		RK73FB2A224J	
R18		RK73FB2A102J	
R19 ,20		RK73FB2A224J	
R21		RK73FB2A474J	
R24 -26		RK73FB2A474J	
R27 ,28		RK73FB2A101J	
R29 -36		RK73FB2A224J	
R41 ,42		RK73FB2A102J	
R43 ,44		RK73FB2A224J	
R45 ,46		RK73FB2A102J	
R47 ,48		RK73FB2A224J	
R49 ,50		RK73FB2A221J	
R51 ,52		RK73FB2A224J	
R53 ,54		RK73FB2A102J	
R55 ,56		RK73FB2A224J	
R57 ,58		RK73FB2A221J	
R59 ,60		RK73FB2A224J	
R61 ,62		RK73FB2A102J	
R63 ,64		RK73FB2A224J	
R69 -71		RK73FB2A474J	
R73 -78		RK73FB2A104J	
R89 ,90		RK73FB2A221J	
R101,102		RK73FB2A124J	
R103,104		RK73FB2A272J	
R105,106		RK73FB2A133J	
R107,108		RK73FB2A224J	
R109,110		RK73FB2A222J	
R111,112		RK73FB2A241J	
R113,114		RK73FB2A472J	
R115,116		RK73FB2A222J	
R117,118		RK73FB2A102J	
R121,122		RK73FB2A224J	
R123,124		RK73FB2A104J	
R125-127		RK73FB2A474J	
R128,129		RK73FB2A822J	
R131,132		RK73FB2A101J	
R133,134		RK73FB2A105J	
R135-139		RK73FB2A222J	
R151,152		RK73FB2A124J	
R153,154		RK73FB2A272J	
R155,156		RK73FB2A133J	
R157,158		RK73FB2A224J	
R159,160		RK73FB2A222J	
R161,162		RK73FB2A241J	
R163,164		RK73FB2A472J	
R165,166		RK73FB2A222J	
R167,168		RK73FB2A102J	
R171,172		RK73FB2A104J	
R173-175		RK73FB2A474J	
R177,178		RK73FB2A101J	
R179,180		RK73FB2A105J	
R181-192		RK73FB2A124J	
R196-199		RK73FB2A102J	
R201,202		RK73FB2A124J	
R203		RK73FB2A272J	
R204		RK73FB2A222J	
R205		RK73FB2A133J	
R206		RK73FB2A183J	
R207,208		RK73FB2A224J	
R209,210		RK73FB2A222J	
R211,212		RK73FB2A241J	
R213,214		RK73FB2A472J	
R215,216		RK73FB2A222J	
R217,218		RK73FB2A102J	
R221,222		RK73FB2A104J	
R223-225		RK73FB2A474J	

Ref. No	New Parts	Parts No.	Destination
R227,228		RK73FB2A101J	
R229,230		RK73FB2A105J	
R231,232		RK73FB2A102J	
R233,234		RK73FB2A224J	
R235,236		RK73FB2A104J	
R237,238		RK73FB2A101J	
R239		RK73FB2A392J	
R240		RK73FB2A182J	
R241,242		RK73FB2A102J	
R243,244		RK73FB2A224J	
R245,246		RK73FB2A104J	
R247,248		RK73FB2A101J	
R249		RK73FB2A474J	
R293,294		RK73FB2A391J	
R295		RK73FB2A103J	
R301,302		RK73FB2A684J	
R303,304		RK73FB2A163J	
R305,306		RK73FB2A392J	
R307,308		RK73FB2A821J	
R309,310		RK73FB2A223J	
R311,312		RK73FB2A102J	
R313,314		RK73FB2A394J	
R315,316		RK73FB2A392J	
R317,318		RK73FB2A184J	
R319,320		RK73FB2A433J	
R321,322		RK73FB2A124J	
R323,324		RK73FB2A222J	
R325,326		RK73FB2A822J	
R327-331		RK73FB2A271J	
R332		RK73FB2A151J	
R333-338		RK73FB2A102J	
R339-341		RK73FB2A242J	
R342		RK73FB2A103J	
R343-348		RK73FB2A474J	
R349		RK73FB2A242J	
R350		RK73FB2A683J	
R353		RK73FB2A122J	
R354		RK73FB2A683J	
R355		RK73FB2A112J	
R356		RK73FB2A103J	
R359		RK73FB2A103J	
R361,362		RK73FB2A104J	
R365,366		RK73FB2A101J	
R367,368		RK73FB2A221J	
R369,370		RK73FB2A102J	
R371,372		RK73FB2A104J	
R375,376		RK73FB2A101J	
R377,378		RK73FB2A221J	
R379,380		RK73FB2A102J	
R381,382		RK73FB2A104J	
R385,386		RK73FB2A101J	
R387		RK73FB2A221J	
R388		RK73FB2A151J	
R389,390		RK73FB2A102J	
R401,402		RK73FB2A101J	
R405,406		RK73FB2A101J	
R409		RK73FB2A101J	
R410		RK73FB2A103J	
R412		RK73FB2A103J	
R501,502		RK73FB2A333J	
R503,504		RK73FB2A183J	
R505,506		RK73FB2A333J	
R507,508		RK73FB2A103J	
R509,510		RK73FB2A752J	
R511,512		RK73FB2A103J	
R531,532		RK73FB2A104J	
R533-536		RK73FB2A392J	
R537,538		RK73FB2A101J	
R541,542		RK73FB2A100J	
R555,556		RK73FB2A100J	
R601		RK73FB2A101J	
R603		RK73FB2A332J	
R604		RK73FB2A681J	
R605		RK73FB2A332J	
R606		RK73FB2A221J	
R607		RK73FB2A821J	
R608		RK73FB2A100J	

L : Scandinavia **K :** USA **P :** Canada **R :** Mexico **C :** China **I :** Malaysia
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⚠ indicates safety critical components.

PARTS LIST

(Refer to page 4)

✻ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

❼

Ref. No	New Parts	Parts No.	Desti-nation
R609		RK73FB2A331J	
R610		RK73FB2A681J	
R611		RK73FB2A220J	
R612		RK73FB2A101J	
R614		RK73FB2A101J	
R615		RK73FB2A333J	
R616		RK73FB2A220J	
R617		RK73FB2A392J	
R618		RK73FB2A302J	
R619		RK73FB2A822J	
R620		RK73FB2A332J	
R623		RK73FB2A153J	
R625		RK73FB2A183J	
R627,628		RK73FB2A682J	
R635,636		RK73FB2A101J	
R638		RK73FB2A102J	
R639		RK73FB2A103J	
R642		RK73FB2A103J	
R643		RK73FB2A221J	
⚠ R644		RD14NB2E271J	
R645-647		RK73FB2A332J	
R648		RK73FB2A102J	
R649		RK73FB2A103J	
⚠ R650		RD14NB2E471J	
R651		RK73FB2A562J	
R652		RK73FB2A101J	
R653,654		RK73FB2A102J	
R655		RK73FB2A103J	
R656,657		RK73FB2A102J	
R658		RK73FB2A123J	
R659		RK73FB2A122J	
R672,673		RK73FB2A392J	
R674		RK73FB2A473J	
R675		RK73FB2A822J	
R676		RK73FB2A182J	
R678		RK73FB2A821J	
R680		RK73FB2A104J	
⚠ R681		RS14KB3A151J	
R682		RK73FB2A272J	
R683		RK73FB2A102J	
R685-687		RK73FB2A105J	
R688		RK73FB2A563J	
R690		RK73FB2A681J	
R691,692		RK73FB2A332J	
R693		RK73FB2A100J	
VR601		R32-0037-05	
W303-310		R92-0670-05	
W313,314		R92-0670-05	
W318,319		R92-0670-05	
W321		R92-0670-05	
W323		R92-0670-05	
W325-329		R92-0670-05	
W331		R92-0670-05	
W651,652		R92-0670-05	
W654,655		R92-0670-05	
W659,660		R92-0670-05	
W680		R92-0679-05	
W684		R92-0670-05	
W685		R92-0679-05	
W688		R92-0679-05	
S1		T99-0606-05	
D2		DA204U	
D2		1SS302	
D6		DA204U	
D6		1SS302	
D13		MA111	
D14		HZS11N(B)	
D14		RD11ES(B)	
D35		HZS5.1N(B2)	
D35		RD5.1ES(B2)	
D601		DA204K	
D603		HZS8.2N(B2)	
D603		RD8.2ES(B2)	
D604		HZS5.1N(B2)	
D604		RD5.1ES(B2)	
D605		HZS2.7N(B2)	

Ref. No	New Parts	Parts No.	Desti-nation
D605		RD2.7ES(B2)	
D609		HZS3.3N(B2)	
D609		RD3.3ES(B2)	
D611		MA111	
D612		HSS104	
D612		1SS133	
D613		MA111	
D615		U1BC44	
IC1 ,2		TC9164AF	
IC3		NJM4565D	
IC4		TC9163AF	
IC18		TC9164AF	
IC19,20		NJM4565D	
IC21		TC9412AP	
IC22		NJM4565D	
IC23		TC9413P	
IC24		NJM4565D	
IC25		TC9413P	
IC26		NJM4565D	
IC29-31		NJM4565D	
IC42		TC9163AF	
IC43		NJM4565D	
IC44		TC9184AP	
IC47-49		NJM4565L	
IC51-53		NJM4565D	
IC601		LA1837	
IC602		LC72131	
Q1 -12		2SC4213(B)	
Q15		DTA113ZUA	
Q15		UN5119	
Q16		2SC4081(R,S)	
Q16		2SC4116(Y,GR)	
Q19		DTA113ZUA	
Q19		UN5119	
Q20		2SC4081(R,S)	
Q20		2SC4116(Y,GR)	
Q21		2SA1576A(R,S)	
Q21		2SA1586(Y,GR)	
Q22		2SC4081(R,S)	
Q22		2SC4116(Y,GR)	
Q23		DTA113ZUA	
Q23		UN5119	
Q24		2SC4081(R,S)	
Q24		2SC4116(Y,GR)	
Q31 -36		2SC4213(B)	
Q41 ,42		2SC3940A(R,S)	
Q43 -48		2SC4213(B)	
Q601		2SC4081(R,S)	
Q601		2SC4116(Y,GR)	
Q602		2SA1576A(R,S)	
Q602		2SA1586(Y,GR)	
Q606,607		2SC4081(R,S)	
Q606,607		2SC4116(Y,GR)	
Q610,611		2SD1757K	
Q612		2SA1576A(R,S)	
Q612		2SA1586(Y,GR)	
Q614		2SA1576A(R,S)	
Q614		2SA1586(Y,GR)	
A601		W02-2584-05	

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D63 -66		B30-2493-05	
D67 ,68		B30-2430-05	
D69		B30-1010-05	
D70		B30-2493-05	
D73		B30-2493-05	
C1 ,2		CC73FSL1H101J	
C3 ,4		CE04KW1H100M	
C5 ,6		CQ93FMG1H332J	
C7 ,8		CQ93FMG1H123J	
C9 ,10		CE04KW1A101M	
C11		CK73FB1H103K	
C12 -14		CC73FSL1H102J	
C15 ,16		CC73FSL1H221J	
C17 ,18		CE04KW1H100M	
C19 ,20		CE04KW1E470M	

Ref. No	New Parts	Parts No.	Desti-nation
C21 ,22		CC73FSL1H181J	
C23 ,24		CC73FSL1H221J	
C101-104		CC73FSL1H101J	
C105,106		CC73FSL1H470J	
C107,108		CC73FSL1H101J	
C109,110		CC73FSL1H470J	
C111-114		CC73FSL1H101J	
C115		CK45FF1H223Z	
C116		CE04KW1HR22M	
C117		CK73FB1H223K	
C118		CE04KW1C331M	
C119		CK45FF1H223Z	
C120		CE04KW1HR22M	
C121		CK73FB1H223K	
C122		CE04KW1C331M	
C123		CK45FF1H223Z	
C124		CE04KW1HR22M	
C125		CK45FF1H223Z	
C126,127		CE04KW1HR22M	
C128,129		CK73FB1H223K	
C130		CC73FSL1H101J	
C131-134		CC73FSL1H220J	
C137,138		CC73FSL1H220J	
C139		CK73FB1H103K	
C140,141		CE04KW1H100M	
C142		CK73FB1H103K	
C143		CE04KW1C331M	
C144		CE04KW1H2R2M	
C146		CK73FB1H103K	
C149,150		CC73FSL1H101J	
C151-154		CK73FB1E104K	
C201,202		CC73FSL1H331J	
C205		CK73FB1H103K	
C206		CC73FSL1H102J	
C209,210		CE04KW1E470M	
C211,212		CC73FSL1H470J	
C213,214		CE04KW1H4R7M	
C227		CC73FSL1H101J	
C301,302		CE04KW1H4R7M	
C303,304		CC73FSL1H271J	
C305-308		CC73FSL1H101J	
C309,310		CE04KW1A221M	
C311,312		CK73FB1H222K	
C313-316		CC45FSL2H560J	
C317,318		CE04KW1H470M	
C319,320		CC73FSL1H270J	
C321,322		CK73FB1H103K	
C325,326		CC73FSL1H151J	
C351,352		CE04KW1H4R7M	
C353,354		CC73FSL1H271J	
C355-358		CC73FSL1H101J	
C359,360		CE04KW1A221M	
C361,362		CK73FB1H222K	
C363-366		CC45FSL2H560J	
C367,368		CE04KW1H470M	
C369,370		CC73FSL1H270J	
C371		CK73FB1H153K	
C372		CK73FB1H103K	
C375,376		CC73FSL1H151J	
C401		CE04KW1H4R7M	
C402		CC73FSL1H271J	
C403,404		CC73FSL1H101J	
C405		CE04KW1A221M	
C406		CK73FB1H222K	
C407,408		CC45FSL2H560J	
C409		CE04KW1H470M	
C410		CC73FSL1H270J	
C411		CK73FB1H153K	
C412		CK73FB1H103K	
C413		CC73FSL1H151J	
C451,452		CE04KW2A4R7M	
C453,454		CE04KW1E470M	
C456,457		CE04KW2A470M	
C458		CE04KW1E470M	
C460		CE04KW1E220M	
C461		CC73FSL1H102J	
C462,463		CE04KW0J471M	

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PARTS LIST

(Refer to page 4)

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Ref. No	New Parts	Parts No.	Destination
C501		CC73FSL1H101J	
C502		CE04HW1E100M	
C503		CE04KW1H100M	
C504		CK73FB1H103K	
C505		CE04KW1H2R2M	
C506		CC73FSL1H050C	
C507		CE04KW1H2R2M	
C508,509		CC73FSL1H220J	
C510		CK73FB1H103K	
C511,512		CE04KW1C331M	
C514-519		CC73FSL1H101J	
C520,521		CE04KW1H2R2M	
C522,523		CE04KW1H100M	
C524,525		CK73FB1H103K	
C526		CK73FB1E104K	
C528-530		CK73FB1E104K	
C550-554		CC73FSL1H820J	
C601,602		CC73FSL1H101J	
C603		C90-3244-05	
C604		CK73FF1C105Z	
C605		CK73FB1H103K	
C606-608		CC73FSL1H101J	
C609-615		CK73FB1H103K	
C616		C90-3241-05	
C617-632		CC73FSL1H221J	
C633		CK73FB1H103K	
C634		C90-3255-05	
C701-703		CC73FSL1H101J	
C705		CK73FB1E104K	
C706,707		CC73FSL1H101J	
C708		CK73FB1E104K	
C801,802		CK73FB1H103K	
C803,804		CE04KW1V102M	
C805		CC73FSL1H331J	
C806		CC73FSL1H102J	
C807,808		CK73FB1H103K	
C809,810		CE04KW1E470M	
C811		CE04KW1V100M	
C812,813		CK73FB1H103K	
C814,815		CK73FB1H473K	
C816-818		CE04KW1H100M	
C819,820		CK73FB1H103K	
C821		CE04KW1C472M	
C822		CK73FB1H103K	
C823		CE04KW1V102M	
C824		CK73FB1H103K	
C825		CE04KW1V331M	
C826		CK73FB1H103K	
C827		CE04KW1C470M	
C828		CE04KW1C101M	
C829		CK73FB1H103K	
C831		CE04KW1C101M	
C901		CK73FB1H103K	
C903		CC73FSL1H102J	
C904		CK73FB1H103K	
C905		CE04KW1E470M	
C906		CK73FB1H182K	
C907		CK73FF1C105Z	
C908		CK73FB1E104K	
C909		CE04KW1E220M	
CN11		E40-9829-05	
CN21		E40-9848-05	
CN22		E40-9853-05	
CN23		E40-9842-05	
CN24		E40-9851-05	
CN25		E40-9846-05	
CN26		E40-9837-05	
CN27		E40-9820-05	
CN28		E40-9837-05	
CN29		E40-9842-05	
CN32		E40-4298-05	
CN33		E40-4938-05	
CN51		E40-4916-05	
J1		E63-1071-05	
J2		E63-1030-05	
J3		E56-0012-05	
J4 ,5		E56-0019-05	

Ref. No	New Parts	Parts No.	Destination
J6		E56-0020-05	
J8		E63-1040-05	
J9		E63-1039-05	
⚠ F1		F05-1222-05	
⚠ F2 ,3		F05-1623-05	
⚠ F4		F05-1222-05	
CN81-88		J13-0075-05	
E1		J19-5789-14	
L1 ,2		L92-0079-05	
X1		L78-0284-05	
R1 ,2		RK73FB2A102J	
R3 ,4		RK73FB2A101J	
R5 ,6		RK73FB2A623J	
R7 ,8		RK73FB2A361J	
R9 ,10		RK73FB2A102J	
R15 ,16		RK73FB2A473J	
R17 ,18		RD14NB2E100J	
R19 ,20		RK73FB2A224J	
R101-103		RK73FB2A750J	
R104		RK73FB2A1R0J	
R105		RK73FB2A750J	
R107-109		RK73FB2A750J	
R110		RK73FB2A1R0J	
R111		RK73FB2A750J	
R112		RK73FB2A1R0J	
R113-115		RK73FB2A750J	
R116		RK73FB2A1R0J	
R117		RK73FB2A750J	
R118		RK73FB2A1R0J	
R119		RK73FB2A750J	
R120		RK73FB2A1R0J	
R121		RK73FB2A750J	
R122		RK73FB2A1R0J	
R123,124		RK73FB2A184J	
R125		RK73FB2A101J	
R126		RK73FB2A203J	
R128		RK73FB2A203J	
R129		RK73FB2A184J	
R131,132		RK73FB2A103J	
R133		RK73FB2A184J	
R135,136		RK73FB2A221J	
R138-142		RK73FB2A103J	
R145		RK73FB2A103J	
R146,147		RK73FB2A221J	
R148		RK73FB2A101J	
R149		RK73FB2A103J	
R150,151		RK73FB2A221J	
R153		RK73FB2A103J	
R154		RK73FB2A221J	
R155		RK73FB2A361J	
R156		RK73FB2A101J	
R157		RK73FB2A103J	
R158		RK73FB2A221J	
R159		RK73FB2A361J	
R172		RK73FB2A750J	
R181		RK73FB2A561J	
R182		RK73FB2A103J	
R183		RK73FB2A361J	
R184		RK73FB2A221J	
R192		RK73FB2A561J	
R201,202		RK73FB2A474J	
R205,206		RK73FB2A474J	
R211-214		RK73FB2A332J	
R215,216		RK73FB2A512J	
R225,226		RK73FB2A102J	
R301,302		RK73FB2A102J	
R303,304		RK73FB2A104J	
R305,306		RK73FB2A163J	
R307-310		RK73FB2A751J	
R311,312		RK73FB2A202J	
R313,314		RK73FB2A222J	
R315-318		RK73FB2A103J	
R319-322		RD14NB2E271J	
R323,324		RD14NB2E181J	
R327,328		RK73FB2A102J	

Ref. No	New Parts	Parts No.	Destination
R329,330		RK73FB2A621J	
R351,352		RK73FB2A102J	
R353,354		RK73FB2A104J	
R355,356		RK73FB2A163J	
R357-360		RK73FB2A751J	
R361,362		RK73FB2A202J	
R363,364		RK73FB2A222J	
R365-368		RK73FB2A103J	
R369-372		RD14NB2E271J	
R373,374		RD14NB2E181J	
R377,378		RK73FB2A102J	
R379,380		RK73FB2A621J	
R401		RK73FB2A102J	
R402		RK73FB2A104J	
R403		RK73FB2A163J	
R404,405		RK73FB2A751J	
R406		RK73FB2A202J	
R407		RK73FB2A222J	
R408,409		RK73FB2A103J	
R410,411		RD14NB2E271J	
R412		RD14NB2E181J	
R414		RK73FB2A102J	
R415		RK73FB2A621J	
R457-461		RK73FB2A472J	
R463-466		RK73FB2A104J	
R467		RK73FB2A222J	
R468		RK73FB2A242J	
R469,470		RK73FB2A104J	
R471,472		RD14NB2E332J	
R473		RD14NB2E391J	
R474		RK73FB2A472J	
R475		RK73FB2A101J	
R476		RK73FB2A472J	
R477		RD14NB2E391J	
R478		RK73FB2A101J	
R479		RK73FB2A103J	
R480		RD14NB2E220J	
R481		RK73FB2A103J	
R482		RD14NB2E472J	
R483-487		RK73FB2A104J	
R488		RK73FB2A183J	
R489		RK73FB2A473J	
R490		RK73FB2A183J	
R491		RK73FB2A273J	
R496,497		RK73FB2A472J	
R498		RD14NB2E472J	
R501		RK73FB2A103J	
R502		RK73FB2A750J	
R503		RK73FB2A102J	
R504		RK73FB2A101J	
R509		RK73FB2A750J	
R510		RK73FB2A103J	
R511		RK73FB2A223J	
R513		RK73FB2A103J	
R514,515		RK73FB2A221J	
R516		RK73FB2A361J	
R517		RK73FB2A103J	
R518,519		RK73FB2A221J	
R520-522		RK73FB2A102J	
R523		RK73FB2A750J	
R524		RK73FB2A104J	
R525		RK73FB2A750J	
R526		RK73FB2A104J	
R527		RK73FB2A750J	
R528		RK73FB2A104J	
R529		RK73FB2A750J	
R601		RK73FB2A103J	
R602,603		RK73FB2A102J	
R604		RD14NB2E330J	
R606,607		RK73FB2A100J	
R610-614		RK73FB2A471J	
R615		RK73FB2A361J	
R617		RK73FB2A471J	
R618		RK73FB2A221J	
R619		RK73FB2A104J	
R620-623		RK73FB2A221J	
R627-631		RK73FB2A103J	

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Ref. No	New Parts	Parts No.	Destination
R632-666		RK73FB2A104J	
R701,702		RK73FB2A221J	
R705		RK73FB2A152J	
R706,707		RK73FB2A224J	
R708-710		RK73FB2A750J	
R711		RK73FB2A184J	
R801,802		RD14NB2E332J	
R803,804		RD14NB2E101J	
⚠ R805		RD14NB2E1R8J	
⚠ R806		RD14NB2E2R7J	
R808		RK73FB2A102J	
R809		RK73FB2A512J	
R810		RK73FB2A153J	
R811		RK73FB2A682J	
R812		RK73FB2A103J	
R821		RD14NB2E272J	
R822		RK73FB2A100J	
R823		RK73FB2A472J	
R824		RK73FB2A100J	
R825		RK73FB2A472J	
R828		RD14NB2E332J	
R901		RK73FB2A223J	
R902,903		RK73FB2A103J	
R904		RK73FB2A153J	
R905		RK73FB2A103J	
R906		RK73FB2A222J	
R912		RK73FB2A102J	
R917-922		RK73FB2A102J	
R923		RK73FB2A562J	
R924		RK73FB2A103J	
R925		RK73FB2A104J	
R926		RK73FB2A102J	
R927		RK73FB2A474J	
R928		RK73FB2A103J	
R929		RK73FB2A101J	
R998,999		RD14NB2E103J	
W312-314		R92-0670-05	
S2 -7		S70-0031-05	
D1		MA111	
D2		U1BC44	
D3		MA111	
D4 ,5		HZS2.7N(B)	
D4 ,5		RD2.7ES(B)	
D6 ,7		MA111	
D31 -38		HSS104	
D31 -38		1SS133	
D39		DA204K	
D40		MA111	
D41 ,42		HSS104	
D41 ,42		1SS133	
D43		HZS5.1S(B2)	
D43		RD5.1JS(B2)	
D44 ,45		MA111	
D46		HZS24N(B)	
D46		RD24ES(B)	
D47		HZS18N(B)	
D47		RD18ES(B)	
D48		HZS24N(B)	
D48		RD24ES(B)	

Ref. No	New Parts	Parts No.	Destination
D49		HZS18N(B)	
D49		RD18ES(B)	
D50 -54		MA111	
D55 ,56		DA204K	
D58 -60		MA111	
D61		HZS3.3N(B)	
D61		RD3.3ES(B)	
D62		HZS2.7N(B)	
D62		RD2.7ES(B)	
D71		HZS2.7N(B)	
D71		RD2.7ES(B)	
D74 ,75		MA111	
D76 ,77		HZS5.1S(B2)	
D76 ,77		RD5.1JS(B2)	
D79 ,80		HZS5.6N(B2)	
D79 ,80		RD5.6ES(B2)	
⚠ D81 ,82		1B4B41	
D83 ,84		HZS15N(B)	
D83 ,84		RD15ES(B)	
D85		HZS5.1S(B2)	
D85		RD5.1JS(B2)	
⚠ D86		S5688B	
D87		HZS11N(B)	
D87		RD11JS(B)	
⚠ D88		D3SBA20F03	
D89		HZS11N(B)	
D89		RD11JS(B)	
D90 ,91		MA111	
D901,902		MA111	
D997		HSS104	
D997		1SS133	
D998		HZS15N(B)	
D998		RD15ES(B)	
D999		MA111	
ED1		16-MT-62GK	
IC1		NJM4580ED	
IC11,12		SN761200N	
IC21		NJM2058D	
IC23		TC9162AF	
IC51		SN761200N	
IC52		MC14577CF	
IC53		NJU3713D	
IC61		UPD780204-038	
IC81		NJM4558D	
⚠ IC82		TA79005S	
⚠ IC82		UPC7905AHF	
⚠ IC83		TA7805S	
⚠ IC83		UPC7805AHF	
⚠ IC84		SI-3082V	
⚠ IC90		BA7645N	
IC91		NJM4580L	
Q11 -14		2SC4081(R,S)	
Q15 ,16		2SC4213(B)	
Q30 ,31		2SC4081(R,S)	
Q51 ,52		2SC4081(R,S)	
Q53		DTA113ZUA	
Q53		UN5119	
Q54		DTC124EUA	
Q54		UN5212	
Q55		2SC4213(B)	

	Ref. No	New Parts	Parts No.	Destination
	Q81		2SC2458(Y,GR)	
	Q81		2SC3311A(Q,R)	
	Q82		2SA1048(Y,GR)	
	Q82		2SA1309A(Q,R)	
⚠	Q83		2SB1370(E,F)	
⚠	Q83		2SB1375	
⚠	Q84		2SD2012	
⚠	Q84		2SD2061(E,F)	
⚠	Q85		2SB1370(E,F)	
⚠	Q85		2SB1375	
⚠	Q86		2SD2012	
⚠	Q86		2SD2061(E,F)	
	Q301-304		2SA992(F,E)	
	Q305-308		2SC2631(R,S)	
	Q309,310		2SA1123(R,S)	
	Q311,312		2SA1586(Y,GR)	
	Q351-354		2SA992(F,E)	
	Q355-358		2SC2631(R,S)	
	Q359,360		2SA1123(R,S)	
	Q361,362		2SA1586(Y,GR)	
	Q401,402		2SA992(F,E)	
	Q403,404		2SC2631(R,S)	
	Q405		2SA1123(R,S)	
	Q406		2SA1586(Y,GR)	
⚠	Q451		2SA1535(R,S)	
⚠	Q452		2SC3944(R,S)	
	Q453		DTC124EUA	
	Q453		UN5212	
	Q454		2SA1611(M5,M6)	
	Q455		2SC4177(L5,L6)	
⚠	Q457		2SC4177(L5,L6)	
	Q458		2SA992(F,E)	
	Q459		DTC124EUA	
	Q459		UN5212	
	Q460		2SC4177(L5,L6)	
	Q461		DTA143TUA	
	Q461		UN5116	
	Q462		2SA1611(M5,M6)	
	Q463,464		2SA992(F,E)	
⚠	Q465		2SC1845(F,E)	
⚠	Q466,467		2SA992(F,E)	
	Q468-470		2SC1845(F,E)	
	Q901		2SC4081(R,S)	
	Q902,903		2SA1611(M5,M6)	
	Q999		2SC3244	
	A1		W02-2571-05	

L : Scandinavia **K :** USA **P :** Canada **R :** Mexico **C :** China **I :** Malaysia
Y : PX(Far East, Hawaii) **T :** England **E :** Europe **G :** Germany **V :** China (Shanghai)
Y : AAFES(Europe) **X :** Australia **Q :** Russia **H :** Korea **M :** Other Areas

⚠ indicates safety critical components.

HOW TO READ THE PARTS LIST
Destination column has the abbreviation for sale country and model.
Alphabets mean the country. Numerals do the model.
Example: E means KRF-X9992D for England market.

ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS

MODEL	CNT ABB.	Australia X	Canada P	China C	England T	Europe E	Germany G	Korea H	Malaysia I
KRF-X9992D	-	-	-	-	T1	E	-	-	-
KRF-X9992DE	-	-	-	-	-	E1	-	-	-

MODEL	CNT ABB.	Mexico R	PX/AAFES Y	Russia Q	Scandinavia L	Shanghai V	USA K	Other area M	Other area(M2) M2
KRF-X9992D	-	-	-	-	-	-	-	-	-
KRF-X9992DE	-	-	-	-	-	-	-	-	-

KRF-X9992D/X9992DE

SPECIFICATIONS

AUDIO section

Rated power output during STEREO operation
(DIN/IEC) 63 Hz ~ 12.5 kHz, 0.7% T.H.Dat 6 Ω ..... 130 W + 130 W
Effective output power during SURROUND operation
FRONT
(1kHz, 0.06% T.H.D. at 6 Ω one channel driven) ..... 130 W + 130 W
CENTER
(1kHz, 0.06% T.H.D. at 6 Ω one channel driven) ..... 130 W
SURROUND
(1kHz, 0.06% T.H.D. at 6 Ω one channel driven) ..... 130 W + 130 W
Total harmonic distortion ..... 0.004 % (1kHz, 65 W, 6 Ω)
Frequency response(IHF '66)
CD1 ..... 5 Hz ~ 80 kHz, +0.5 dB, –3 dB
Signal to noise ratio (IHF '66)
PHONO (MM) ..... 77 dB
CD1 ..... 96 dB
Input sensitivity / impedance
PHONO (MM) ..... 2.5 mV / 47 kΩ
CD1 ..... 200 mV / 47 kΩ
6CH INPUT ..... 200 mV / 47 kΩ
Output level / impedance
TAPE REC ..... 200 mV / 220 Ω
PRE OUT (FRONT, CENTER, SURROUND, SUBWOOFER) ..... 1 V / 500 Ω
Tone control
BASS ..... ±7 dB (at 100 Hz)
TREBLE ..... ±7 dB (at 10 kHz)
LOUDNESS control
VOLUME at -40dB level ... +7 dB(100 Hz), +4 dB(10 kHz)

DIGITAL AUDIO section

Sampling frequency ..... 32 kHz, 44.1 kHz, 48 kHz
Input level / impedance / wave length
Optical ..... -15 dBm ~ -21 dBm, 600 nm ±30nm
Coaxial ..... 0.5 Vp-p / 75 Ω
Output level / impedance / wave length
Optical ..... -15 dBm ~ -21 dBm, 600 nm ±30nm

VIDEO section

VIDEO inputs / outputs
VIDEO (composite) ..... 1 Vp-p / 75 Ω
S-VIDEO (luminance signal) ..... 1 Vp-p / 75 Ω
(chrominance signal) ..... 0.286 Vp-p / 75 Ω

FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz
Usable sensitivity (DIN, 75 Ω)
MONO ..... 1.2μV / 13.2 dBf (40 kHz DEV., S/N 26 dB)
STEREO ..... 45μV / 44.2 dBf (46 kHz DEV., S/N 46 dB)
Total harmonic distortion (DIN, 1 kHz)
MONO ..... 0.2 % (65.2 dBf input)
STEREO ..... 0.8 % (65.2 dBf input)
Signal to noise ratio (DIN weighted, 1 kHz)
MONO ..... 65 dB (40 kHz DEV., 65.2 dBf input)
STEREO ..... 60 dB (40 kHz DEV., 65.2 dBf input)
Stereo separation (DIN, 1 kHz) ..... 36 dB
Selectivity (DIN, ±300 kHz) ..... 64 dB
Frequency response (30 Hz ~ 15kHz) ..... +0.5 dB, –3.0 dB

AM tuner section

Tuning frequency range ..... 531 kHz ~ 1,602 kHz
Usable sensitivity (30% mod., S/N 20 dB) ..... 16 μV / (600 μV/m)
Signal to noise ratio (30 % mod., 1 mV input) ..... 50 dB

GENERAL

Power consumption ..... 600 W
⚠ AC outlet
SWITCHED ..... 2 (total 100W max.)
Dimensions ..... W : 440 mm (17-5/16")
..... H : 162 mm (6-3/8")
..... D : 391 mm (15-3/8")
Weight (Net) ..... 15.2 kg (33.5lb)

Notes

1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. Full performance may not be exhibited in extremely cold locations (below 0 deg.C).

Note:

Component and circuit are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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